	Model (1)			
1	Choose the correct answer:			
1	All of the following are processes that occur duri	ng the water cycle except		
	a) precipitation	b) runoff		
	c) evaporation	d) drought		
2	The plant loses water from the stomata during	process.		
	a) evaporation	b) transpiration		
	c) photosynthesis	d) precipitation		
3	measures the atmospheric pressure.			
	a) Thermometer	b) Barometer		
	c) Rain gauge	d) Anemometer		
2	Put (✓) or (X) in front of each sentence:			
1	Temperatures decrease in areas far from the equ	ator.	()
2	All the sunlight rays that fall on the Earth's surface	e are inclined.	()
3	The density of cold water is greater than the den	sity of hot water.	()
3	Answer the following questions:			
1	Mention the factors affect the movement of wat	er in the water cycle.		
			••••••	

(Humidity - Volcano - Temperature - Atmospheric pressure)

Cross out the odd word.

Model (2	2) M
Write the scie	ntific term
'ha amaaynt af	

the ocean or sea.

1	The amount of water vapor present in the air.	(
2	The flowing of water along the Earth's surface into the river and then into	

3	The device	that measures	the a	mount of rain in a certain area.	(
-	I I I C GC VICC	tilat ilicasaics	tile a	iniodine of fairi in a certain area.	(

2	Complete the	e following	sentenc	es from	the two	brackets:
---	--------------	-------------	---------	---------	---------	-----------

1 The force of pulls water droplets and sleets towards the ground. ((friction - gravity)
--	----------------------

- 2 At night, the sand on the seashore cools ______ than the sea water. (faster slower)

3 Answer the following questions:

ection
ectio

2 Mention the importance of satellites.

Model (3)

15 Marks

1	Complete th	ne following	sentences:

1	When the sun rays are	in an area far away from the equator, they are
	distributed on a larger area and we feel co	ıld.

2	During eva	aporation proc	ess,	water changes into a	state
	by		ther	mal energy	

3 Clouds are formed due to the	process, then they fall down in the form of
rain and snow	

2 Choose the correct answer:

1	ls considered the main source of	energy	in the w	ater cycle.	

- a) Water b) Wind c) Sun d) Gravity
- 2 The sun rays are at the equator.
 - a) perpendicular b) parallel c) semi-inclined d) very -inclined
- 3 Theis used to measure wind speed.
 - a) thermometer b) barometer c) anemometer d) rain gauge

3 Answer the following questions:

- 1 What happens if there is no wind on Earth?
- 2 The areas close to the equator are characterized by high temperature. Give reason.

Model (4)

15 Marks

- 1 Put (\checkmark) or (x) in front of each sentence:
- 1 The water cycle is affected by three main processes. ()
- 2 The sand absorbs heat slower than water during daytime. ()
- 3 Inclined sunrays affect a large area, and the temperature increases. ()
- 2 Choose from column (B) what suits from column (A):

(A)	(B)	
1. Water reservoirs	a. They are used to carry measuring instruments high into the	
	atmosphere to measure weather conditions	
2. Cold water molecules	b. They are storage locations of water on Earth	
3. Weather balloons	c. have high density	

- 3 Answer the following questions:
- 1 The amount of energy emitted from the sun affects the transpiration process. Give reason.
- 2 In the opposite figure, the force that is responsible for falling rain is called

.....



Model (/ E \
Wohel	
IVIOGCI	

1	Choose	the	correct	answer:
Ш	CHOOSE		COLLECT	aliswei.

	currents cause air movement, winds, and changes in weather conditions.
-1	currents cause air movement, winds, and changes in weather conditions
	wanted the state of the state o

- a) Heat conduction b) Thermal radiation
- c) Tides
- d) Convection
- 2 The sun rays arein areas that are very far from the equator.
 - a) vertical
- b) curved
- c) slanted
- d) very slanted
- - a) condenses
- b) evaporates
- c) freezes
- d) melts

2 Write the scientific term:

1 The weight of the air above a certain area.

- 2 The process of the movement of water on the surface of the Earth into bodies of water.

(.....)

3 It is the science of studying and predicting the weather.



3 Answer the following questions:

- 1 We need an oxygen cylinder when climbing mountains. Give reason.
- 2 Look at the following figure, then answer.
 - a) This device is called
 - b) It is used to measure



	Model (1)		
1	Choose the correct answer:		
1	All of the following are processes that occur duri	ing the water cycle except	
	a) precipitation	b) runoff	
	c) evaporation	d) drought	
2	The plant loses water from the stomata during	process.	
	a) evaporation	b) transpiration	
	c) photosynthesis	d) precipitation	
3	measures the atmospheric pressure.		
	a) Thermometer	b) Barometer	
	c) Rain gauge	d) Anemometer	
2	Put (✓) or (X) in front of each sentence:		
1	Temperatures decrease in areas far from the equ	ator.	(√)
2	All the sunlight rays that fall on the Earth's surface	ce are inclined.	(X)
3	The density of cold water is greater than the den	sity of hot water.	(✓)
3	Answer the following questions:		
1	Mention the factors affect the movement of wat	er in the water cycle.	
	1- Thermal energy		
	2- Gravity force		

(Humidity - Volcano - Temperature - Atmospheric pressure) (Volcano)

2 Cross out the odd word.

Model (2)



- 1 Write the scientific term:
- 1 The amount of water vapor present in the air.

(Humidity)

2 The flowing of water along the Earth's surface into the river and then into the ocean or sea.

(Runoff)

3 The device that measures the amount of rain in a certain area.

(Rain gauge)

- 2 Complete the following sentences from the two brackets:
- 1 The force of _____ pulls water droplets and sleets towards the ground. (friction gravity)
- 2 At night, the sand on the seashore cools _____ than the sea water. (faster slower)
- 3 Rain and snow fall from clouds during the process of (condensation precipitation)
- 3 Answer the following questions:
- 1 Mention the factors that determine the wind direction.
 - 1- The amount of solar radiation that reach the Earth
 - 2- Rotation of the Earth
- Mention the importance of satellites.
 - Carry measuring instruments high into the atmosphere to measure weather conditions.

Model (3)

1	Complet	e the	following	sentences
ч	,			

1 When the sun rays arevery inclinedin an area far away from the equator, they are distributed on a larger area and we feel cold.

2 During evaporation process, water changes into a _______ gaseous______ state by _____gaining____thermal energy.

3 Clouds are formed due to the _____condensation ____ process, then they fall down in the form of rain and snow.

Choose the correct answer:

is considered the main source of energy in the water cycle.

a) Water b) Wind c) Sun

d) Gravity

2 The sun rays are at the equator.

a) perpendicular b) parallel

c) semi-inclined

d) very -inclined

3 Theis used to measure wind speed.

a) thermometer

b) barometer

c) anemometer

d) rain gauge

3 Answer the following questions:

1 What happens if there is no wind on Earth?

- The regions around the equator become extremely hot and the poles will completely freeze.

2 The areas close to the equator are characterized by high temperature. Give reason.

- Because the sun rays are concentrated on a small area, giving a high effect of heat.

Model (4)

15 Marks

- 1 Put (\checkmark) or (X) in front of each sentence:
- 1 The water cycle is affected by three main processes.

(✓)

2 The sand absorbs heat slower than water during daytime.

(X)

Inclined sunrays affect a large area, and the temperature increases.

(X)

2 Choose from column (B) what suits from column (A):

(A)	(B)
1. Water reservoirs	a. They are used to carry measuring instruments high into the
	atmosphere to measure weather conditions
2. Cold water molecules	b. They are storage locations of water on Earth
3. Weather balloons	c. have high density

1.b 2.c 3.a

- **3** Answer the following questions:
- 1 The amount of energy emitted from the sun affects the transpiration process. Give reason.
 - As the amount of energy emitted from the sun increases, as the rate of transpiration process increases.
- 2 In the opposite figure, the force that is responsible for falling rain is called



Model (5)

15 Marks

1 Choose the correct answer:

			1 1	weather conditions.
(CHREATE CALICA AIR R	MOVEMENT WINDS	and chanded in	Weather conditions
٧.	La manage de la constanta de l	HOVEIHEIL, WILLIAS,	, and changes in	weather conditions.

- a) Heat conduction
- b) Thermal radiation
- c) Tides
- d) Convection
- 2 The sun rays are in areas that are very far from the equator.
 - a) vertical
- b) curved
- c) slanted
- d) very slanted
- - a) condenses
- b) evaporates
- c) freezes
- d) melts

- 2 Write the scientific term:
- 1 The weight of the air above a certain area.

(Atmospheric pressure)

2 The process of the movement of water on the surface of the Earth into bodies of water.

(collection)

3 It is the science of studying and predicting the weather.

(Meteorology)

- **3** Answer the following questions:
- 1 We need an oxygen cylinder when climbing mountains. Give reason.
 - Because the amount of oxygen gas decreases as we rise up.
- 2 Look at the following figure, then answer.
 - a) This device is called(thermometer)......
 - b) It is used to measure (temperature)



Concept Energy Transfer in the Water Cycle

1 Important Definitions Concept 1

The state of the s		
Water cycle	 It is the continuous movement of water among the various reservoirs. It is the continual movement of water between the Earth's surface and the atmosphere. 	
Evaporation	It is the process by which liquid changes into gas.	
Condensation	It is the process by which gas changes into liquid.	
Precipitation	It is the process by which water droplets fall on the Earth's surface in the form of rain, sleet, hail, or snow.	
Runoff	It is a step of the water cycle in which water flows across the Earth's surface in streams, then into rivers, lakes, or oceans.	
Collection	It is a step of the water cycle in which rainwater is collected in a bigger body of water.	
Melting	It is the process by which solid changes into liquid.	
Freezing	It is the process by which liquid changes into solid.	
Transpiration	It is the process by which water vapor is released into the air by the plant's leaves.	
Reservoir	voir It is the storage location of water on Earth.	
Convection	It is a way that heat transfers through liquid and gas.	
Convection current	It is the rising of warm, less dense fluid and the sinking of cold, denser fluid.	

2 Importances Concept 1

	 It provides the energy to melt ice and evaporate water on the Earth's surface. 	
Solar energy	It is the energy that drives the water cycle.	
	It provides energy to generate wind.	
	 It is the basic force that drives the water cycle. 	
	 It pulls ice crystals and water droplets from clouds to fall 	
	back to the Earth's surface.	
	 It pulls solid water (ice) to flow in glaciers from areas of 	
Gravity	higher elevation to areas of lower elevation.	
It causes water to percolate down into the ground to		
groundwater reservoirs.		
It causes the rise and fall of the different densities, creating a circulation of convection currents.		
		Convection
current	It helps in determining regional climates.	
Wind	It has a role in transporting water to different locations on	
Wind	Earth during the water cycle.	

3 Important Comparisons Concept 1

1 Evaporation process and condensation process:

Evaporation Process	Condensation Process	
It is the process of changing water into water vapor.	It is the process of changing water vapor into water droplets, forming clouds.	
In the water cycle: The water in the bodies of water gains heat energy from the Sun and turns it into water vapor.	In the water cycle: Water vapor cools (releases energy) and turns into water droplets, forming clouds.	

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Melting process and freezing process:

Melting Process	Freezing Process
It is the process of changing a solid into a liquid by heating.	It is the process of changing a liquid into a solid by cooling.
Its particles absorb energy.	Its particles release energy.

Transpiration process and precipitation process:

Transpiration Process	Precipitation Process
It is the process by which water	It is the process by which water falls on
vapor is released into air by the	the Earth's surface in the form of rain,
plant's leaves.	sleet, hail, or snow.

Earth's climate zones:

Hottest Regions	Moderate Regions	Coolest Regions	
They are regions close to the equator.	They are regions located between the hottest and coolest regions.	They are regions close to the North and South Poles of the Earth.	
They have high temperatures.	They have moderate temperatures.	They have very low temperatures.	
They have the highest evaporation rate.	They have a moderate evaporation rate.	They have the lowest evaporation rate.	



Give Reasons for...

Concept

- Sunlight is important for the water cycle.
 - Because it provides the needed energy to melt ice into water or evaporate water into water vapor.
- The water levels in puddles may rise or fall.
 - Due to the energy transfer during the water cycle.
- Fog may be formed over a field in the early morning.
 - Due to the condensation of water vapor in the air.
- Climate affects the evaporation rate.
 - Because as the climate gets hotter, more evaporation occurs, and vice versa.
- Mater flows in glaciers from a higher to a lower elevation area.
 - Due to the force of gravity.
- **6** Water flows downhill in streams to a bigger body of water.
 - Due to the force of gravity.
- A puddle in a hot desert becomes smaller and smaller.
 - Due to the evaporation of the puddle's water by the Sun.
- The dust particles in the air help in the precipitation process.
 - Because many water droplets in the air stick and accumulate on the dust particles, forming clouds.
- Transpiration process has an important role in the water cycle.
 - Because about 10% of the water vapor in the air is released from the transpiration process occurring in plants' leaves.
- **(iii)** Evaporation and condensation are two opposite processes.
 - Because evaporation is the change of liquid into gas by heating, while condensation is the change of gas into liquid by cooling.
- The water droplets in clouds fall on the Earth's surface in the form of rain.
 - Because the water droplets become too heavy to be held by the clouds, so they are pulled down by gravity.
- Convection currents have an important role in the condensation process in the atmosphere.
 - · Because warm air rises up to be cooled, and it condenses, forming clouds.

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- 13 The Sun is responsible for convection currents in the atmosphere and ocean
 - As the air and water on the Earth's surface are heated by the Sun, the become warmer and rise, while colder and denser air and water fall dow
- 14 Cold air sinks, while warm air rises up.
 - · Because cold air is denser than warm air.
- 15 You feel very hot if you live near the equator.
 - Because the vertical sun rays are focused on a small area.
- 18 Polar regions have the lowest average of temperature on Earth.
 - Because sun rays fall with low angle where sun rays are distributed on very large area.
- Solar radiation is responsible for the creation of wind.
 - Because the air warmed by the Sun rises, and it is replaced by cooler a from nearby.

5 What happens if: Concept 1

- 1 Water vapor rises in the air?
 - Water vapor cools and condenses, forming clouds.
- You travel to a city near the equator?
 - The climate becomes cooler.
- 3 A small puddle is exposed to an extreme hot weather?
 - The puddle may dry up.
- Gravity causes liquid water to percolate down into the ground?
 - Water is collected as a groundwater reservoir.
- Warm, moist air touches a cold glass of water?
 - The moist air condenses forming water droplets.
- The particles of water absorb heat energy?
 - The water evaporates and turns into water vapor.
- You wrapped a plastic bag around a plant?
 - · Water droplets are formed inside the plastic bag.
- The Sun heats up the water in oceans, lakes, and rivers?
 - Liquid water will change into water vapor and rise to the atmosphere.
- Water droplets become too heavy in the clouds?
 - Water droplets will fall to the Earth's surface in the form of rain.
- 8 Science Prim. 6 Second Term

- Description Sun rays fall on the water in the oceans and rivers?
 - The water in oceans and rivers evaporates and rises to be cooled and condensed.
- Precipitation hits the Earth's surface?
 - . It may flow on the land as runoff.
- Water droplets in clouds become too heavy?
 - They precipitate in the form of rain, snow, or hail.
- 13 The air near the Earth's surface is heated?
 - The air becomes warmer and lighter, so it rises up in the air.
- Myou travel to a city away from the equator? (Concerning the weather)
 - The temperature decreases.
- (Concerning the weather)
 - The temperature and precipitation rate increase.
- The amount of Sun's radiation reaching all parts of the Earth is equal?
 - · Wind will not be formed.
- Warmed air carrying water vapor rises up in convection currents?
 - It loses the water in the form of rain.
- B Cooled, dry air descends and reaches the Earth's surface?
 - It forms a group of deserts around the planet.

6 Main Points Concept 1

- Flamingos migrate and breed to a salty lake in Turkey when the weather is warm.
- Flamingos feed on algae.
- The amount of solar radiation that reaches any area on the Earth's surface is unequal.
- The unequal heating of land and oceans causes different temperatures and densities in the ocean and atmosphere, causing ocean currents and wind.
- Even in a dry desert environment, the water cycle takes place.
- The water cycle has no starting point or ending point.

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>> States of water:

- Water exists in nature in three states.
- In the water cycle, water changes from one state to another by absorbing or releasing energy.
- When a gas or a liquid is heated, it becomes less dense and it rises up.
- When a gas or a liquid is cooled, it becomes denser and it sinks.

>> Examples of water reservoirs:

 Oceans, seas, rivers, lakes, glaciers, groundwater, soil, rocks, atmosphere and living organisms.

>> Clouds are formed when:

- Condensed water droplets stick and collect on particles of dust, pollens and smoke in the air.
- Clouds are made up of billions of water droplets in the air.

>>> Precipitation:

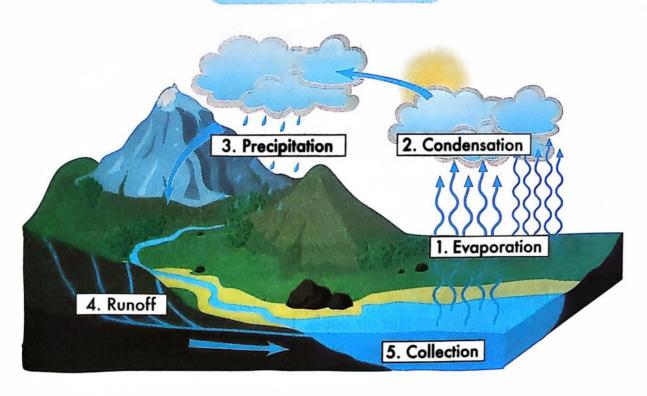
- When precipitation hits Earth in the form of rain, snow, or hail.
- It may flow across the land as runoff.
- Runoff is collected in streams, rivers, lakes, or oceans.

>>> The wind direction is determined by two factors:

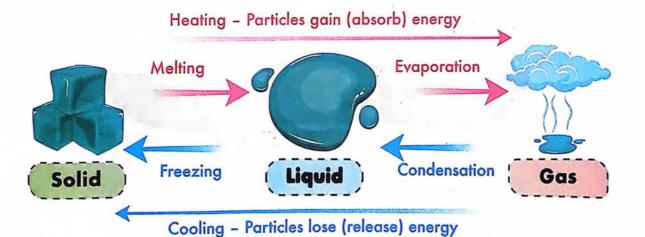
- The amount of solar radiation that the Earth receives at different latitudes
- The rotation of Earth
- >> Wind blows when warmed air by the Sun is replaced by cooler nearby air.
- Earth has a global wind system that consists of winds that blow in a constan direction over long periods of time.
- The Sun's heat reaches the Earth's atmosphere through space by radiation
- >>> Heat energy is transferred throughout the Earth's atmosphere as convection
- Convection currents happen in the atmosphere, water, and Earth's mantle.
- About 10 % of the water vapor in the air comes from the transpiration procest carried out by plants.

7 Important Diagrams Concept 1

1 Water Cycle



2 Changes of Matter States

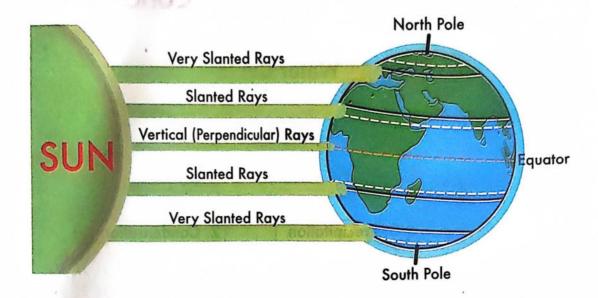


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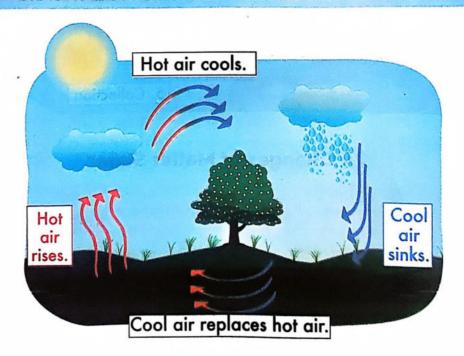
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3 Distribution of Solar Radiation on Earth's Surface



4 Relation Between Convection and Condensation



8 Revision on Concept 1

Choose the co	rrect answer:			
1 Convection currents are responsible for all the following, except				
a. creation of wind b. ocean currents				
c. determining t	he climatic zone	s d. ocean tides		
2 are co	onsidered forms	of precipitation.		
a. Rain, snow, a	nd hail	b. Sun, rain, and	snow	
c. Oceans, river	s, and seas	d. Mountains, vo	illeys and rivers	
3 In thermal conve	ection, heat trans	sfers from		
a. high altitudes	to low altitudes	b. moist to dry r	egions	
c. cool to warm	regions	d. warm to cool	regions	
All the following	processes are in	volved in the wate	er cycle, except	
a. evaporation	b. filtration	c. precipitation	d. condensation	
5 The flowing of w	ater along the E	arth's surface to l	akes and oceans is	
called				
a. rainfall	b. runoff	c. precipitation	d. condensation	
6 When there is m	ore sun rays fall	ing on a plant's le	eaf, its transpiration	
rate		· Photo mil		
a. increases	b. decreases	c. doesn't chang	e d. disappears	
7 All the following	occur during the	condensation pro	cess, except	
a. formation of	clouds	b , absorbing en	ergy	
c. releasing ene	rgy .	d. water vapor to	urning into liquid	
8 The basic force	that drives water	er in the water c	ycle is the force of	
a. gravity	b. evaporation	c. magnetism	d. pressure	
Theis	/are responsible	e for the moveme	nt of wind.	
a. water cycle	b. ocean tides	c. solar energy	d. sound energy	
10 Flamingos feed	onin t	he lake's shallow	water.	
a. algae	b. sharks	c. hawks	d. ducks	
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Sun heat reaches the Earth's atm	osphere by	
a. radiation b. conduction	c. convection	d. condensation
Water moves from oceans to	the atmosphere	by the
process and returns to the Earth	's surface by the	process
a. condensation - evaporation	b. evaporation -	precipitation
c. precipitation - evaporation	d. condensation	- precipitation
13 When water vapor condenses, th	ne liquid water for	ms
a. steam b. clouds	c. runoff	d. air
When water vapor rises in the atn	nosphere, it cools	and, forming

a. evaporates - clouds	b. condenses - c	louds
c. melts - ice	d. freezes - oxyg	en
15 What causes convection current	s in the Earth's atr	mosphere?
a. The unequal heating on land	and the aquatic be	odies by the Sun
b. The equal heating on land an	d the aquati c bodi	ies by the Sun
c. The runoff water on land		
d. The transpiration process in p	lants	
Wind's direction is affected by		
a. the moon's revolution	b. the Sun's rotat	
c. Earth's revolution	d. Earth's rotation	
Water vapor mustbefore		
	c. melt	
is produced when he	at from the Sun o	creates convection
currents.	- \. f - J	
a. An earthquake b. A volcano		-
The highest rate of evaporation		•
a. hottest b. Arctic	c. coolest	
© Convection currents occur in all a. Earth's mantle b. solids		
u. Laitiis mantie D. Sollas	c. liquids	d. gases

Put (✓) or (x):		
Transpiration produces about 10% of the water vapor in the atmosphere	e. ()
Transpiration occurs in plant roots.	()
Fog forms on fields in the early morning due to the conder	nsa	tion
process.	()
The water cycle has no start or end.	()
Condensation and freezing processes need absorbing energy	J. ()
The water level in a puddle increases due to the energy transferred to	it.()
The water cycle doesn't occur in hot deserts.	()
Wide leaves lose more water vapor than small leaves duri	ng	the
transpiration process.	()
The water cycle occurs on land only.	()
The transpiration rate increases at night.	()
The human body is considered a water reservoir.	()
When water vapor gains energy, it turns into water droplets.	()
The water cycle is a continuous process that doesn't stop.	()
Earth's rotation on its axis affects the wind direction.	()
Moist air masses form a group of deserts around the world.	()
The evaporation process occurs when the water molecules lose energ	y.()
Tountries near the two poles have the coolest climate.	()
There is no energy transfer occurring in the water cycle.	()
The wind won't blow if all regions on the Earth's surface ha	ve	the
same temperature.	()
20 Cool air is more dense than warm air.	()
Onvection currents cause the movement of ocean currents.	()
The regions between the equator and the North Pole have a mo	der	ate
climate.	()
Write the scientific term:		
They are formed when water vapor condenses and comes tog	eth	er
in the air.)

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- 2 It is the process by which water in the atmosphere falls back on the Earth's surface in the form of rain or snow.
- ③ It is a storage location of water on Earth.
- It is the continuous movement of water among various reservoirs.
- It is one of the Earth's layers that contains convection currents.

4

Choose from column (A) what suits it in column (B):

A

Column (A)	Column (B)	
Gravity	a. helps determine the regional climates on Earth.	
2 Earth's rotation b. is the force that pulls the rain down.		
3 Condensation c. is a form of evaporation that takes place in pla		
Transpiration	d. is the opposite process of evaporation.	

1 ___ 2 __ 3 __ 4 _:

В

Column (A)	Column (B)		
A shallow river drying up	a. is the source of solar radiation on the Earth's surface.		
② Glaciers	b. is an example of evaporation.		
3 Clouds	c. are reservoirs that are made up of water in its solid state.		
4 The Sun	d. are made up of billions of tiny water droplets.		

1 2 3 4

Complete the following using the words between the brackets:
(wind - migrate - force - ocean currents - warm - cooled) Flamingos prefer to and breed when the weather becomes
Water starts to move when a is exerted on it The convection currents occurring in water causes, while the convection currents occurring in air generates
When the water particles are, they become more dense. (convection currents - atmosphere - global wind system - Soil -
directions - condenses) and are considered water reservoirs. The allow the falling and rising of air with different densities.
That consist of winds that blow in constant over long periods of time: consist of winds that blow in constant over long periods of time: consist of winds that blow in constant over long periods of time: consist of winds that blow in constant over long periods of time:
evaporation) In the water cycle, causes the change of the water state, while theof wind and gravity moves water among water reservoirs.
Allow rivers dry up due to the large process. Allow noven, occur due to the change of the air particles temperatures and
Correct the underlined words: The amount of water changes during the water cycle. (
When water condenses, it changes from a gas into a solid.() The radiant energy of the Sun causes ice to freeze and turn into a liquid. ()
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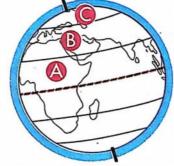
	dense. (
5	When the water droplets in the clouds become <u>light</u> , water precipite
	(
2	Give reasons for:
	Sunlight has an important role in the water cycle.
	The amount of transferred energy affects the rate of evaporation
	a puddle's water.
3	Water flows in glaciers from a higher to a lower elevation area.
4	You feel very hot if you live near the equator.
5	There is too little rain in deserts around the world.
6	Solar radiation is responsible for the creation of wind.
	What happens if:
1	There are no particles of dust, smoke, or pollens in the atmospher



	Concept (1): Energy Trans	sfer in the Water Cycle
You wrapped a plant	astic bag around a plant?	
③ Precipitation hits the state of the sta	ne Earth's surface?	
There is no wind o	n the Earth? (Concerning the	ocean currents)
Complete the fol	lowing diagram:	
	Liquid	Gas
Free	ezing	
Study the followi	ing figure, then put (√) or	(X):
Wind moves from	region (A) to region (B).	B
Region (A) has a	a cooler climate and less	A S

rainfall than region (B).

slanted sun rays.



Region (C) is very cool as it receives very

(

Model Exam 1

Question	
CHIESTION .	
2 CC J CI OII	

uestion	U			
(A) Cho	ose the co	rrect answer:		
1 Wate	er on Earth e	exists indi	fferent states.	
a.tv	vo	b. three	c. four	d. five
	ne following proc	orocesses require (ess.	absorbing heat er	nergy, except for
3 Conv a. th 4 The	vection curre e moon heat of the S	Sun reaches the Ec	causeheats th c. the ocean arth by	e Earth unevenly d. the Sun
a. co	onvection	b. radiation	c. condensation	d. conduction
It is the	process by as sleet or h	entific term: which water drop nail.	lets in clouds retu	rn to the Earth's
(A) Put 1 The 2 Dese 3 Wind	water cycle of the control of the co	doesn't occur in the little rainfall, as the climate of differer by has hosted colon	ey exist near the ontregions around	the world. (
		o dd word: hesis – Evaporatio	n - Collection	(
acstion				

(A) Choose from column (A) what suits it in column (B):

(A)	(B)
1 Gravity	a. affects the wind direction.
2 Earth's rotation	b. is the force that pulls the rain down.
3 Condensation	c. is a form of evaporation that takes place in plants.
4 Transpiration	d. is the opposite process of evaporation.

(B) What happens if:

You go away from the equator? (According to the temperature)

Question	11
Question	

uestion 1			
(A) Choose the corre	ect answer:		
1 All the following are	considered forms	of precipitation,	except
a. sleet b.	hail	c. lakes	d. snow
2 What is the correct s	sequence of proce	esses that the wo	ater undergoes
in the water cycle?			
a. Evaporation, prec			
b. Evaporation, cond			
c. Evaporation, precd. Condensation, eve			
3 The presence of all the fo			clouds except
	smoke particles		377
4 Heat transfers by co	• • • • • • • • • • • • • • • • • • • •	* · · · · · · · · · · · · · · · · · · ·	
a. fluids b.	metals	c. solids	d. space
(B) Give a reason for: S	Solar radiation is res	sponsible for the c	reation of wind.
Question (2)			
(A) Put (/) or (X):			
1 The water cycle has	a start point and	also an end poir	nt ()
2 About 10% of the wo			
process.	ater in the emile p		()
3 Cold water is denser	than hot water.		()
4 Wind affects the clim	nate of different re	egions around th	ne world. ()
(B) What happens to	. \		
The water level in a puc		cipitation on it in	creases?
Question (3)			de Las destas
(A) Complete the sent	The second secon		
(temperatures	s - living organism		1074
2 Gases with different			
3 Water falls to the Ea			into the clouds
(B) Write the scienti		atti vapoi	into the clouds.
It is a storage location for			(

February Exams

(Choose the correct answer:	
	1 A puddle may dry up due to the	process.
	a. condensation	b. precipitation
	c. evaporation	d. melting
	2is a form of evaporation the	at takes place in the plant's leaves.
	a. Photosynthesis	b. Precipitation
	c. Transpiration	d. Respiration
	3 The dry air in the wind's cycle forms Earth.	s a group of around the
	a. streams	b. puddles
	c. forests	d. deserts
	4 The process follows the ecycle.	evaporation process in the water
	a. precipitation b. transpiration	c. condensation d. melting
	Put (✓) or (✗):	
•	The amount of solar radiation that requal.	eaches different areas on Earth is
	2 The water cycle doesn't occur in a c	Iry desert environment. ()
	3 The heat of the Sun transfers through	gh space by convection. ()
	4 When precipitation hits Earth, it may	flow across the land as runoff.
1	Answer the following questions	5 :
	(A) Write the scientific term:	
	It is the continuous movement o reservoirs.	f water among different water ()
	(B) Give a reason for:	
	The Sun is the main source of energ	yy that drives the water cycle.

Choose the correct answer:	
1 All the following processes are in	nvolved in the water cycle, except
a. condensation	b. precipitation
c. transpiration	d. photosynthesis
2 Heat transfers by convection curre	ents in
a. space	b. metals
c. fluids	d. solids
3 and processes	release energy.
a. Evaporation - condensation	b. Melting - transpiration
c. Freezing - condensation	d. Transpiration - evaporation
return(s) water to the air	in the form of water vapor.
a. Transpiration b. Evaporation	c. Condensation d. a and b
Put (✓) or (✗):	
1 The regions near the equator have	e the lowest evaporation rate. ()
2 The water level in the lake is not affe	ected by any change in temperature.
	()
3 The Sun is the most important sou	rce of energy that drives the water
cycle.	()
4 Gravity returns the ice crystals	in the clouds to the Earth in the
condensation process.	()
Anaman tha fallantian annatian	
Answer the following question	<u>1S:</u>
(A) Write the scientific term:	
It is the storage location of water of	on Earth. ()
(B) Give a reason for:	
The water levels in puddles may ri	se.

	Choose the correct answer:	
	1 Which of the following is NOT a res	ult of condensation?
	a. Clouds	b. Water vapor
	c. Fog	d. a and c
	2is the main source of ene	ergy that drives the water cycle.
	a. The moon	b. Gravity
	c. The Sun	d. Earth
	3 Heat is transferred from the Sun thr	rough space by
	a. conduction	b. convection
	c. radiation	d. b and c
	4 Water into water vapor a	•
	a. evaporates b. condenses	c. melts d. freezes
	Put (✓) or (X):	
	1 The climate is not affected by your	location on Earth. ()
	2 Warm air is always replaced by col	d air. ()
	3 The water cycle has no starting or e	ending point. ()
	4 If Earth stopped rotating, the wind o	direction would not be affected.
		()
	Answer the following questions	6.
•	(A) Write the scientific term:	3.
		oplots in clouds fall on the Earth's
	It is the process by which water dro	
		()
	(B) What happens to:	a atmosphere?
	The water vapor if it is cooled in the	e dimospherer

Choose the correct answer:				
1 The snow falling in a polar region represents the process.				
a. condensation	b. precipitation			
c. evaporation	d. melting			
2processes are the reaso	n that water vapor e	exists in the air.		
a. Transpiration and condensatio	n b. Evaporation and	d precipitation		
c. Precipitation and condensation	d. Evaporation an	d transpiration		
3 The water in a river traveling dow	vn a mountainside c	and into the sea		
represents				
a. transpiration	b. precipitation			
c. runoff	d. evaporation			
4 In the regions, the rate of	of evaporation would	be the highest.		
a. moderate b. coolest	c. hottest	<mark>d.</mark> polar		
Correct the underlined words	3:			
Correct the underlined words 1 Flamingos feed on the algae in th		S. ()		
1 Flamingos feed on the algae in th	e lake's <u>deep</u> waters			
 Flamingos feed on the algae in th Transpiration is a form of condens 	e lake's <u>deep</u> waters sation.	()		
 Flamingos feed on the algae in th Transpiration is a form of condens The Sun is the basic force that drive 	e lake's deep waters sation. ves the water cycle.	()		
 Flamingos feed on the algae in th Transpiration is a form of condens 	e lake's deep waters sation. ves the water cycle.	()		
 Flamingos feed on the algae in th Transpiration is a form of condens The Sun is the basic force that drive 	e lake's deep waters sation. ves the water cycle. or ice crystals.	()		
 Flamingos feed on the algae in the sum of condense. Transpiration is a form of condense. The Sum is the basic force that drive wind may contain water droplets. 	e lake's deep waters sation. ves the water cycle. or ice crystals.	()		
 Flamingos feed on the algae in the Transpiration is a form of condense The Sun is the basic force that drived Wind may contain water droplets Answer the following question	e lake's deep waters sation. ves the water cycle. or ice crystals.	()		
1 Flamingos feed on the algae in th 2 Transpiration is a form of condens 3 The Sun is the basic force that driv 4 Wind may contain water droplets Answer the following question (A) Write the scientific term:	e lake's deep waters sation. ves the water cycle. or ice crystals.	()		
1 Flamingos feed on the algae in th 2 Transpiration is a form of condens 3 The Sun is the basic force that driv 4 Wind may contain water droplets 3 Answer the following question (A) Write the scientific term: It is the transfer of heat through lie	e lake's deep waters sation. ves the water cycle. or ice crystals. ns:	()		

Choose the corre	ect answer:		
1is the mo	ain reason wh	y the evaporation	process occurs in
the water cycle.			
a. The Sun	o. Gravity	c. The moon	<mark>d.</mark> Rain
2 The presence of a		g in the air helps i	n the formation of
clouds, except for	······································	b and also is quation	da a
a. pollensc. dust particles		b. smoke particd. rocks	cies
3 When the air partic	les agin enerc		dense and
writer the air partie	ics gairreriers	gg, theg become	derise aria
a. more - sink	. less - sink	c. more - rise	d. less - rise
4 As you go away fro	om the equate	or,	
a. sunlight is distrik	outed over a s	maller area	
b. precipitation inc			
c. sunlight is distrib	_	greater area	
d. the temperature	HICIEUSES		
Put (√) or (×):			
1 Steam is an examp	ole of precipito	ation.	()
2 When glaciers lose	energy, they	change into a liqui	id state. ()
3 When a gas is hea	ted, it expand	s and becomes de	nser. ()
4 Deserts are formed	d when dry, c	old air descends b	back to the Earth's
surface.			()
A			
Answer the follow		ons:	
(A) Write the scientific			
It is the step in which	n water flows (along the Earth's su	rtace into streams
or rivers.			()
(B) What happens if:			
The water droplets	in the clouds	become too heav	y?

Answers

Model Exam 1

- 1 1 c 2 c 3 d 4 c
- 2 1 X 2 X 3 X 4 ✓
- (A) Water cycle
 - (B) Because the Sun provides the energy needed to evaporate water into water vapor and melt ice into water.

Model Exam 2

- 1 d 2 c 3 c 4 d
- 1 x 2 x 3 \ 4 x
- (A) Reservoir
 - (B) Due to the precipitation process.

Model Exam 3

- 1 b 2 c 3 c 4 a
- 2 / 3 / 4 X
- (A) Precipitation
 - (B) The water vapor condenses into water droplets.

Model Exam 4

- 1 1 b 2 d 3 c 4 c
- 2 evaporation
 - 3 Gravity 4 Clouds
- (A) Convection
 - (B) Water flows on the Earth's surface as runoff.

- 1 1 a 2 d 3 d 4 c
- 2 1 x 2 x 3 x 4 ✓
- (A) Runoff
 - (B) The water droplets fall on the Earth's surface during precipitation.

Self-Assessments

on Concept (3.1)

Self-Assessment	1)	On	Lesson	1
-----------------	----	----	--------	---

- (A) Complete the following sentences using the words below: (evaporation energy solar)
 - 1. Water changes from solid state to liquid state when it gains
 - 2. The increase in the rate of causes the completely drought of the large salt lake in Turkey.
 - 3. Evaporation of different water bodies on Earth is affected by the distribution of the energy on the Earth's surface.
 - (B) Give a reason for the following:

Drying up of a shallow lake in summer season.

ACCOUNTS NOT THE PARTY OF						
675	(A)	Put	1/1	or	141	
Control of	(-1)	, ut	(r)	U	(\wedge)	

- 1. Sunlight causes the change of water to snow in coolest regions. (
- 2. The large salt lake in Turkey dries up when the weather is cold. ()
- 3. In hottest regions, the rate of evaporation process is the greatest. (
- (B) What happens to ...?

The migration of flamingos if the large salt lake in Turkey becomes completely drought.

Look at the following pictures, then put (\checkmark) or (x):



A lake filled with water Picture (A)



A lake affected by drought Picture (B)

- 1. Drying up of water of the lake in picture (B) is due to the increase in the rate of condensation process.
- 2. The level of water of the lake in picture (A) will increase if the rate of precipitation increases in this area.
- 3. The lake in picture (B) will become like the lake in picture (A) if the rate of evaporation increase in the lake of picture (B).

Self-Assessment (2) till Lesson 2

1	(A) Choose the Control 1. Both ofthermal energy	. and Pi		ncreasing the absorption of	
	a. evaporation	 transpiration 	b. evaporation d. condensation	on – freezing	
	 Water changes to move when a. work – force c. work – energy The next proces a. evaporation 	s from a state to ais exe y ss after conden s. b. precipitatio	b. force – ene d. energy – fo sation of water vap	rce or in the sky as clouds is	rts
	(B) Give a reason In a sunny day, liquid water.	a part of ice for	und on the top of a	mountain will change into	
2	(A) Write the science 1. A step after presented the land into the	ecipitation in wh	each of the following ich water of rain flo	ig : ws across (
	vapor during tr	anspiration prod	res responsible for locess. The responsible for locess. The responsible for locest	(September September
	(B) What happens	if? is exposed to s	solar radiation for a	long period of time.	
3	Look at the oppo		n	\$ A A	STATE OF THE PARTY
			process that takes d on the plant leave	M 12 37743	0
	 Choose the considered as 		e in this figure is		The state of the s
	The process w water vapor the	at is found in the	e in this figure can		
	a. 5%	b. 7%	c. 10%	d. 15%	

Self-Assessment (3) till Lesson 3

(A) Complete the foll	wing sentences using the words below:
	(loses – gains – deserts)

- Water of oceans and seas thermal energy when it changes into water vapor.
- 2. Formation of large areas of is due to the precipitation of very little rains on these areas.
- 3. In condensation process, water vapor thermal energy and changes again into liquid water.
- (B) Give a reason for the following:

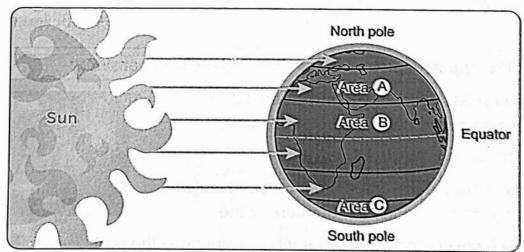
The weather in the area faraway from the equator is very cold.

(A) Put (\(\sigma\)) or (\(\chi\)):

- When rainwater hits the ground, it may flow across the land in the form of evaporation.
- 2. The force of gravity affects the movement of water in the water cycle. (
- Temperature and precipitation in the areas away the equator control the weather in these areas.
- (B) What happens if ...?

Water vapor in the sky loses a big amount of thermal energy.

Look at the following figure, then choose the correct answer:



1. The weather in area (A) is

(hot - warm - very cold)

2. The sun rays fall perpendicular on area

(A-B-C)

3. The weather is very cold in area

(A-B-C)

Self-Assessment 4 till Lesson 4

 (A) Correct the underlined words? Friction force causes warmer water to move downward below cooler water. When warm air contains a big amount of water vapor, it loses this water in the form of steam. Liquid water gains electrical energy when it changes into water vapor. (B) Give a reason for the following: 	((
When cold air is warmed by the solar energy, it rises upward.	
When dold all to training	
f I file following:	e e e
(A) Write the scientific term of each of the following:	
1. The state of water that is produced when an amount of liquid water	7
gains a big amount of thermal energy.	(to
2. It is the process in which water changes from gas state to liquid sta	(
It is formed from millions of tiny water droplets which are condensed from water vapor in the sky.	(
(B) What happens to?	
The density and the movement of air if the temperature of air increa	ases in an
B Look at the opposite picture, then choose the correct answer :	
1. Water droplets which are found on the lid, are formed by the help of process. (condensation – precipitation)	
2. We can increase the amount of produced water vapor by increasing the temperature of the	
(lid which covers the pot – water which is found in the pot)	
The process which helps in the formation of water dropletes on the same process which helps in the formation of	lid is the
(clouds in the sky – ice on the top of mountains)	

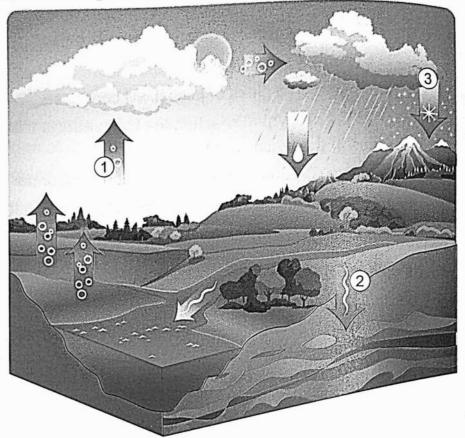
Total mark

Model Exam on Concept (3.1)

 _	

(sola 1. When in air hits a 2. The amount of er evaporation process in th 3. Cold water has more	than warm water so it moves under the nough water vapor, it loses this water in the ollowing:	ne warm water.
(A) Correct the underlined	words ·	
 The heat of the Sun transconvection. Deserts are formed by the sum of the	e effect of moist air. large salt lake in Turkey when here. ans that liquid water changes into ice.	() () ()
Commence of the Commence of th		(5 marks)
(A) 1. Condensation 2. Evaporation 3. Precipitation 4. Runoff	a. falling of snow in an area. b. formation of fog on a road. c. formation of a glacier in an area. d. drying of a shallow lake. e. flowing of river's water into a sea.	

(B) Look at the following figure, then put (\checkmark) or (X) :



- 1. Arrow number 1 indicates lose of thermal energy.
- 2. Arrow number 2 indicates the effect of the gravitational force on water.
- 3. Arrow number ③ represents precipitation precess.



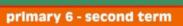


	Question 01	Cho	ose the corre	ct a	nswers	30	
1	Wind helps in tra	nspor	ting water thro	ough	the water cycle	by ca	arrying
	sand grains	(b)	small rocks	©	plant leaves	(1)	water vapor
2	Melting of snow a from the		two poles, is d	ue to	the thermal er	ergy	that comes
	(a) wind	(b)	moon	©	Sun	d	electricity
3	Fresh water store of	d und	lerground in th	ne for	m of groundwa	ater b	y the effect
	(a) condensation	(b)	electricity	0	gravity	d	evaporation
4	Wind is produced	by th	ne help of				
7.96	a water turbine	e (b)	electric generator	©	solar radiation	(1)	electric motor
5	About 10% of the	wate	r vapor in air c	omes	from transpira	tion o	f
	(a) humans	(b)	rocks	©	plants	d	animals
6	The large Salt Lak	e in T	urk <mark>ey is dried i</mark>	up du	e to the increa	se in t	he rate of
	(a) melting	(b)	freezing	0	evaporation	d	condensation
7	Leakage of water	into	groundwater r	eserv	oirs is due to th	e acti	on of
	a condensation	(b)	gravity	©	precipitation	d	evaporation
8	Water in oceans	chang	es into w	hen v	vater gains the	rmal e	energy.
	a liquid water	(b)	water vapor	©	snow	d	sleet
9	Increasing and detransfer of					due to	the
	rocks	(b)	energy	(work		wind





science





					The state of the s	lays a	an 8
(1)	electrical	(b)	solar	0	sound	(1)	kinetic
				of w	ater from	tate	to
(3)	gas - liquid	(b)	liquid-gas	0	solid-gas	(1)	solid - liquid
Wr	nen warm air is	coole	ed, it will move				
(a)	upward	(b)	downward	©	forward	(1)	backward
Wr	nen a liqu <mark>id</mark> is h	eated	d, it will an	d be	come less dense	and	
(3)	expa <mark>nd -</mark> hea <mark>vie</mark> r	(b)	contract - lighter	©	expand - lighter	d	contract - heavier
Clo	oud <mark>s a</mark> re formed	due	to proc	ess.			
a	melting	(b)	collection	0	condensation	d	freezing
		t	processes h	арр	en due to the d	ecrea	ise of
a	melting - freezing	(b)	melting - condensation	©	freezing - condensation	d	melting - evaporation
			uds becomes to	o he	avy, it falls on th	ne gr	ound by a
a	evaporation	(b)	precipitation	©	condensation	(1)	collection
Du	e to convection	,	air moves up	owar	rd above a	ir.	
(3)	hot - cold	(b)	cold - hot	©	cold - warm	d	warm - hot
		ratio	n process that	takes	s place from the	leav	
(3)	transpiration	(b)	collection	0	melting	d	freezing
Gat	thering the water	er of	rains to form st	rean	ns, rivers or lake	s, is c	alled
(3)	precipitation	(b)	condensatio n	•	collection	(1)	evaporation
		s pre	sent in air char	iges	into when	it hi	ts a cold
	imp a Mo Wi a Wi a Clo a Bo the pro Du The is co a Gat Wa	important role in e a electrical Movement of air common state by evap a gas - liquid When warm air is a upward When a liquid is he a expand - heavier Clouds are formed a melting Both of	important role in evaporation a electrical b Movement of air can chemic state by evaporation a gas - liquid b When warm air is coole a upward b When a liquid is heated a expand - heavier Clouds are formed due a melting b Both of	a electrical b solar Movement of air can change the state	important role in evaporation process in th a electrical b solar Movement of air can change the state of was state by evaporation process. a gas - liquid b liquid-gas c when warm air is cooled, it will move a upward b downward c when a liquid is heated, it will and be expand - heavier Clouds are formed due to	important role in evaporation process in the water cycle. a electrical	 electrical solar sound Movement of air can change the state of water from state state by evaporation process. gas - liquid liquid-gas solid-gas when warm air is cooled, it will move upward downward forward expand - (a) contract - (b) contract - (c) expand - (c) lighter expand - (c) contract - (c) expand - (c) expand - (c) lighter melting contract - (c) expand - (c





put (true) or (false)

1	Water comes out from stomata to the air in the form of water vapor.	(<u> </u>
2	As air is warmed by the Sun, the air will fall down	13	9)
3	All living organisms on the Earth depend on water to survive.	1	1
4	Clouds consist of tiny water droplets that have condensed out of the air.	U	9)
5	Drying up of water in the large Salt Lake in Turkey is due to condensation process.	1	1
6	Water reservoirs on the Earth include oceans and seas only.	T')
7	Convection currents in Earth's atmosphere help in determining the regional climate.	5	1
8	Clouds are made up of millions of tiny water droplets.	4	1
9	Glaciers move from the top of mountains to the bottom of mountains due to the effect of gravity.	1	9
10	The heat of the Sun transfers through space to Earth's atmosphere by convection.	(
11	Transferring of energy in the water cycle causes increasing and decreasing of water level in some lakes.	1)
12	The two factors which control the movement of water in the water cycle are gravity force and solar energy.	-	24)
13	When fresh water changes into snow and ice, this means that fresh water gains thermal energy.	()
14	Unequal heating of the Earth between the poles and the equator generates wind.	()
15)	In the water cycle, the step that follows condensation process is runoff.	(31
16	Rains fall and collect in oceans by the effect of gravity force.	1	1
17	Wind is caused by the continuous exchange between warm air and cold air.	1	A
18	Flamingos migrate to the large Salt Lake in Turkey when the weather is very cold.	1	1
(19)	Deserts are formed by the effect of moist air.	1	1



science

primary 6 - second term



20	Evaporation of	water means that liquid water changes into ice.	
21)		nspiration process when you set a plant its leaves (
22	The water cycle reservoirs on the	is a movement of water through different water (e Earth.	
23	States of water	change when water gains or loses energy.	
24	Melting and tra	nspiration processes only occur by cooling.	
25)	Falling of sleet	n an area is an example of precipitation process.	
	Question 03	Complete the following sentences	
D	Due to convecti	on currents, hot air moves cold air.	
2		r droplets in the clouds become too heavy, it causes	
3	early morning.	g is due to the of water vapor on a field in nes out from plant leaves through the	
5	called the	un causes the changing of liquid water intol	is by
7	water is collected	in oceans by the effect of force.	
8		e up of millions of tinydroplets. It to move or change its way of movement when a cts it.	
0		energy that reaches the Earth affects the rate rocess in the water cycle.	e
II)		uses changing of the water in rivers and seas into	
2	Water vapor co	ndenses in the sky to form	
3	The force which is called	cause moving down of water from the top of a mounta	in
4		er through the Earth's atmosphere due to the effect of ents.	
15)	-	a form ofprocess, while condensation takes rease in the energy.	j





write the scientific term for each of the following

(U)	to gas state. It is the process which helps in formation of clouds in the	1550 u	5.4
2	sky.	1 35	d
3	It is the process in which water falls on Earth in the form of rain, sleet, snow or hail		50)
4	It is the process in which matter changes from gas state to liquid state	15	5
5	It is the step in which rainwater falling on the Earth's surface is collected in different water bodies.	(36) SPO	-)
6	It is the step in which water flows along the Earth's surface into the river and then into the ocean or sea. The cycle that involves the continuous movement of water	1) }
7	from different water bodies to the atmosphere then falling back to the Earth in the form of rain, sleet or snow.	C ASS	6) (
8	The main source of energy which affects the water cycle	L ³	5 1
9	It is a form of evaporation that takes place through the stomata which are found in plant leaves.	1	u)
10	It is the method by which heat transfers within liquids and gases, where hot molecules rise upward, while colder molecules fall down.	(5)
11)	It is the method by which heat of the Sun transfers from the space to Earth's atmosphere	1)
12	It is caused when air warmed by the solar radiation rises and then replaced by cooler air that flows from nearby areas.	1 7 15 m	36)
13	The force which causes moving down of water from higher places to lower places on the Earth.	1 30	
14	Large areas of land which are formed due to the effect of dry air.	P &)



Give reason for each of the following

①	Formation of clouds in the sky.
2	Changing of water from one state to another.
3	Changing of some amount of water in water bodies into water vapor
4	Hot air moves upward above cold air.
5	Formation of fog in the early morning
6	Moving down of glaciers from the top of a mountain to its foot.
7	The weather in the area near the equator is hot.
8	About 10 % of water vapor in air comes from plants.
9	Drying up of the large Salt Lake in Turkey in summer season
10	The effect of heat is low in the area at the north and south of the equator.
11)	On adding warm water to cold water without shaking, the warm wate stay above cold water without mixing.
12	The formation of wind is determined by the amount of solar radiation received by the Earth.







What happens if?

1	Moist air touches a cold bottle of water
2	The weather if the sun rays fall very inclined on an area.
3	The level of water in a lake when the rate of evaporation increases.
4	Water of seas and oceans gains big amount of thermal energy
8	The density of air if the cold air is warmed by the effect of solar energy
9	You cover some leaves in a plant with a plastic bag then put this plant in the direct sunlight for a while
10	The air temperature if there is no wind on Earth.
11)	Water vapor in air condenses in the sky.
(12)	The movement of air when solar radiation heats up the air in an area.
13	The water droplets in the clouds become very heavy

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا " صدق الله العظيم





Answers





	Question 01	Cho	se the corre	ect a	nswers	y Ju			
1	Wind helps in transporting water through the water cycle by carrying								
	a sand grains	(b)	small rocks	©	plant leaves	d	water vapor		
2	Melting of snow a from the		two poles, is d	ue to	the thermal en	ergy	that comes		
	(a) wind	(b)	moon	©	<u>Sun</u>	d	electricity		
3	Fresh water store of	d und	lerground in th	ne for	m of groundwa	ater b	y the effect		
	condensation	(b)	electricity	©	gravity	d	evaporation		
4	Wind is produced	by th	e help of						
	water turbing	b	electric generator	©	solar radiation	d	electric motor		
5	About 10% of the	wate	r vapor in air c	omes	from transpira	tion o	f		
	(a) humans	(b)	rocks	©	plants	d	animals		
6	The large Salt Lak	e in T	ur <mark>key is dried</mark>	up du	e to the increas	se in t	he rate of		
	(a) melting	(b)	freezing	0	evaporation	d	condensation		
7	Leakage of water	into g	groundwater r	eserv	oirs is due to th	e acti	on of		
	(a) condensation	(b)	gravity	©	precipitation	(d)	evaporation		
8	Water in oceans o	hang	es into w	hen v	vater gains the	rmal e	energy.		
	a liquid water	(b)	water vapor	©	snow	d	sleet		
9	Increasing and detransfer of					due to	the		
	(a) rocks	(b)	energy	©	work	d	wind		





science





10		e distribution of oortant role in e				arth's surface ple e water cycle.	lays a	an S
	_	electrical	4	solar	0	sound	(1)	kinetic
11)		ovement of air co		17.7	of w	ater from s	tate	to
	(1)	gas - liquid	(b)	liquid-gas	0	solid-gas	(1)	solid - liquid
12	W	nen warm air is	coole	ed, it will move	·····	16 38°		
	(1)	upward	(b)	downward	©	forward	d	backward
13	W	nen a liqu <mark>id is</mark> h	eated	d, it will an	d be	come less dense	and	
	(1)	expa <mark>nd -</mark> hea <mark>vie</mark> r	(b)	contract - lighter	©	expand - lighter	d	contract - heavier
14	Clo	oud <mark>s a</mark> re formed	due	to proc	ess.			
	(3)	melting	(b)	collection	©	condensation	d	freezing
15)		th <mark>of</mark> and rm <mark>al</mark> energy	d	processes h	парр	en due to the d	ecrea	ise of
	(2)	melting - freezing	(b)	melting - condensation	©	<u>freezing -</u> <u>condensation</u>	d	melting - evaporation
16		nen the water ir cess called		ids becomes to	o he	avy, it falls on th	e gr	ound by a
	(3)	evaporation	(b)	precipitation	©	condensation	(1)	collection
17	Du	e to convection	,	air moves up	owar	<mark>d above</mark> ai	ir.	
	(3)	hot - cold	(b)	cold - hot	©	cold - warm	d	warm - hot
18		e form <mark>o</mark> f evapo alled	ratio	n process that	takes	s place from the	leav	
	(3)	transpiration	(b)	collection	0	melting	d	freezing
19	Gat	hering the wat	er of	rains to form st	rean	ns, rivers or lake	s, is c	alled
- 3	(3)	precipitation	(b)	condensatio n	•	collection	(1)	evaporation
20		ater vapor that i ter bottle.	s pre	sent in air char	iges	into when	it hi	ts a cold
	(1)	gas state	(b)	steam	©	<u>liquid water</u>	(1)	juice



put (true) or (false)

1	Water comes out from stomata to the air in the form of water vapor.	
2	As air is warmed by the Sun, the air will fall down	*
3	All living organisms on the Earth depend on water to survive.	
4	Clouds consist of tiny water droplets that have condensed out of the air.	
5	Drying up of water in the large Salt Lake in Turkey is due to condensation process.	*
6	Water reservoirs on the Earth include oceans and seas only.	*
7	Conve <mark>ct</mark> ion currents in Earth's atmosphere help in determining the regional climate.	
8	Clouds are made up of millions of tiny water droplets.	
9	Glaciers move from the top of mountains to the bottom of mountains due to the effect of gravity.	
10	The heat of the Sun transfers through space to Earth's atmosphere by convection.	×
11	Transferring of energy in the water cycle causes increasing and decreasing of water level in some lakes.	
12	The two factors which control the movement of water in the water cycle are gravity force and solar energy.	M
13	When fresh water changes into snow and ice, this means that fresh water gains thermal energy.	×
14	Unequal heating of the Earth between the poles and the equator generates wind.	
15)	In the water cycle, the step that follows condensation process is runoff.	*
16	Rains fall and collect in oceans by the effect of gravity force.	
17	Wind is caused by the continuous exchange between warm air and cold air.	
18	Flamingos migrate to the large Salt Lake in Turkey when the weather is very cold.	×
19	Deserts are formed by the effect of moist air.	×



science primary 6 - second term

- 20 Evaporation of water means that liquid water changes into ice.
- ×
- You can see transpiration process when you set a plant its leaves covered with a plastic bag in the sunlight.



The water cycle is a movement of water through different water reservoirs on the Earth.



States of water change when water gains or loses energy.



24 Melting and transpiration processes only occur by cooling.



25 Falling of sleet in an area is an example of precipitation process.

Question 03

Complete the following sentences

- 1 Due to convection currents, hot air moves above cold air.
- When the water droplets in the clouds become too heavy, it causes precipitation process.
- Formation of fog is due to the <u>condensation</u> of water vapor on a field in early morning.
- Water vapor comes out from plant leaves through the stomata.
- The movement of water through different water reservoirs on the Earth is called the water cycle.
- Energy of the Sun causes the changing of liquid water into water vapor by evaporation process.
- water is collected in oceans by the effect of gravity force.
- 8 Clouds are made up of millions of tiny water droplets.
- The water starts to move or change its way of movement when a force affects it.
- The amount of <u>solar</u> energy that reaches the Earth affects the rate of evaporation process in the water cycle.
- Evaporation causes changing of the water in rivers and seas into water vapor.
- Water vapor condenses in the sky to form clouds.
- The force which cause moving down of water from the top of a mountain is called gravity.
- Heat can transfer through the Earth's atmosphere due to the effect of convection currents.
- Transpiration is a form of <u>evaporation</u> process, while condensation takes place by the decrease in the <u>thermal</u> energy.





primary 6 - second term



Question 04

write the scientific term for each of the following

1	It is the process in which matter changes from liquid state to gas state.	Evaporation process
2	It is the process which helps in formation of clouds in the sky.	Condensation process
3	It is the process in which water falls on Earth in the form of rain, sleet, snow or hail	Precipitation process
4	It is the process in which matter changes from gas state to liquid state	Condensation process
5	It is the step in which rainwater falling on the Earth's surface is collected in different water bodies.	Collection
6	It is the step in which water flows along the Earth's surface into the river and then into the ocean or sea.	Runoff
7	The cycle that involves the continuous movement of water from different water bodies to the atmosphere then falling back to the Earth in the form of rain, sleet or snow.	Water cycle
8	The main source of energy which affects the water cycle	The Sun
9	It is a form of evaporation that takes place through the stomata which are found in plant leaves.	Transpiration process
10	It is the method by which heat transfers within liquids and gases, where hot molecules rise upward, while colder molecules fall down.	Convection
11)	It is the method by which heat of the Sun transfers from the space to Earth's atmosphere	Radiation
12	It is caused when air warmed by the solar radiation rises and then replaced by cooler air that flows from nearby areas.	Wind
13	The force which causes moving down of water from higher places to lower places on the Earth.	Gravity
14	Large areas of land which are formed due to the effect of dry air.	<u>Deserts</u>





Ouestion 05

Give reason for each of the following

1 Formation of clouds in the sky.

<u>Due to condensation of water vapour into water droplets that adhere to particles of dust or smoke in the air</u>

2 Changing of water from one state to another.

Due to gaining or losing of thermal energy

3 Changing of some amount of water in water bodies into water vapor

Due to evaporation process as a result of gaining of thermal energy

Hot air moves upward above cold air.

Due to the effect of convection where hot air has less density so it rises upward, while cold air has more density so it falls down

5 Formation of fog in the early morning

Due to condensation of water vapor that is found in the air

Moving down of glaciers from the top of a mountain to its foot.

Due to the effect of gravity on glaciers

7 The weather in the area near the equator is hot.

Because the sun rays fall perpendicular on Earth's surface giving high effect of heat

8 About 10 % of water vapor in air comes from plants.

Due to transpiration process which happens by plants

9 Drying up of the large Salt Lake in Turkey in summer season

Due to the increase in the evaporation of the lake water

The effect of heat is low in the area at the north and south of the equator.

Because the sun rays fall semi-inclined on Earth's surface of these areas, so the weather is warm





On adding warm water to cold water without shaking, the warm water stay above cold water without mixing.

<u>Due to the effect of convection, as warm water has low density than cold water, so warm water will stay above cold water</u>

The formation of wind is determined by the amount of solar radiation received by the Earth.

Because warm air rises upward when it is heated by solar radiation and it is replaced by cooler air that flows from nearby areas

Question 06

What happens if?

Moist air touches a cold bottle of water

Water vapor which is found in air condenses on the surface of the bottle

2 The weather if the sun rays fall very inclined on an area.

The weather of this area becomes very cold

The level of water in a lake when the rate of evaporation increases.

The level of water will decrease

Water of seas and oceans gains big amount of thermal energy

Water of seas and oceans changes into water vapor in air

The density of air if the cold air is warmed by the effect of solar energy.

The density of the air will decrease

You cover some leaves in a plant with a plastic bag then put this plant in the direct sunlight for a while

Water droplets will be formed inside the bag

The air temperature if there is no wind on Earth.

The regions around the equator become extremely hot and the poles will completely freeze







Water vapor in air condenses in the sky.

Clouds are formed in the sky

The movement of air when solar radiation heats up the air in an area.

The air will move upward in this area

The water droplets in the clouds become very heavy

Water droplets fall in the form of rain

تم بحمد الله ،

بسم الله الرحمن الرحيم " إِنَّ الَّذِينَ آمَنُوا وَعَمِلُوا الصَّالِحَاتِ إِنَّا لَا نُضِيعُ أَجْرَ مَنْ أَحْسَنَ عَمَلًا" صدق الله العظيم







Concept 3.1 Lesson 1 Exam

L. C	hoose	e the	correct	answer	:-		
						se in the rate of	
a.	Meltin	ıg	b. freez	zing	c. evaporation	d. condensation	1
2. In	n winter	, rain f	falls duo to .		process		
a.	Conde	nsatio	n b. evap	oration	c. collection	d. precipitation	1
3. T	The distr	ibutior	n of	energ	gy on the earth's	surface plays an importan	ıt
r	ole in ev	aporat	ion process	in the water	cycle		
a.	Electri	ical	b. solar		c. sound	d. kinetic	
4. N	Moderate	e regio	ns are areas	in which the	evaporation pro	cess is	
a.	The gre	atest	b. the sma	llest	c. moderate	d. absent	
2. C	hoose	fro	m colun	nn (B) w	hat suits it	in column (A):-	
			(A)		•	B)	
		$\frac{1}{2}$	Condensati Evaporation		lling of snow in a	an area	
			Precipitatio	h h	Formatting of fog	on a road	
			Runoff	c. I	Formatting of a g		
					Dying of a shallo		
				e. I	flowing of river's	water into a sea	
		1		2	3	4	-
3. P	ut ()	or (:	×);=				-
1. Γ	Dying up	p of wa	ater in the la	rge salt lake	in turkey is duo	to condensation process ()
2. F	Flamingo	s migi	rate to the la	rge salt lake	in turkey when t	he weather is very cold	
tl	here()						
3. S	States of	water	change when	n water gain	s or loses energy	()	
4. F	Falling of	f hall i	n coolest reg	gions is an ex	kample of evapor	ration process ()	
1. W	/rite t	he s	cientific	terms c	of each of t	he following:-	
)	
2. It	t is the pr	ocess i	n which matt	er changes from	om liquid state to	gas state	
•							
		-	hich water fl	_	e earth's surface in	to the river and then into the	е
U	cean or s	va (



5. Give reason for:-

1.	Formatting of fog in the early morning
2.	Changing of water from one state to another
_	What happen to? The level of water in a lake when the rate of evaporation increases
2.	The snow when sunlight falls on it

Concept 3.1 Lesson 2 Exam

	Alba a a a a a a a a a a a a a a a a a a	ant americ	

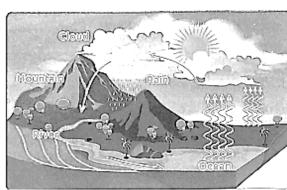
1.	Choose the	correct answe	r:-				
			rvoirs is duo to the ac	tion of			
a	. Condensation	b. gravity	c. precipitation	d. evaporation			
3.	Bothand	process h	appen duo to the decr	eases of thermal energy			
a	. Melting-freezing		b. melting-condensat	ion			
c	. freezing-condensat	ion	d. melting-evaporation	on			
4.	. About 10% of the water vapor in air comes from transpiration of						
a	. Humans	b. rocks	c. animals	d. plants			
5.	The form of water	that is found in air an	nd sometimes we cann	not see it is the			
a	. Liquid water	b. water vapor	c. ice	d. snow			
б.	When the water in	clouds becomes too l	neavy, it falls on the g	ground by a process			
а	. Evaporation	b. precipitation	c. condensation	d. collection			
2	Put () or (×)):-					
1.	Water reservoirs or	the earth include oc	eans and seas only ()			
2.	The two factors wh	nich control the move	ement of water in the	water cycle are gravity			
	force and solar energy ()						
3.	When the sun heats the water in a river, the water changes into gas state ()						
4.	As a result of low t	emperature, water re	turns back into water	vapor ()			
5.	Clouds are made up	p of millions of tiny v	water droplets ()				



3-	 Write the scientific terms of each of the 	following:-
1.	They are the places of storing water on the earth	()
2.	It is the form of evaporation that takes place through the stomat	a which are found in
	plant leaves	()
3.	The force which causes moving down of water from higher place	ces to lower places on
	the earth	()
4	-Give reason for:-	
1.	Moving down of glaciers from the top of a mountain to its foot	
2.	About 10% of water vapor in air comes from plants	
5	-What happen for? 1. Moist air touches a cold bottle of water	
	2. The water droplets in the clouds become very heavy	
6-	Look at the opposite figure, then answer sentence: -	the following
1.	This picture shows the	

2. Choose the correct answer:

- 1. The rain falling on the mountain is a form of (precipitation cloud)
- 2. The rain on the mountains runs into the......... and goes to the ocean (river ocean)
- 3. When the sun heats up the water in the ocean, it will...... (run off evaporation)





Concept 3.1 Lesson 3 Exam

	Gathering the water		eams, rivers or lakes	is called			
a	. Precipitation	b. evaporation	c. collection	d. condensation			
2.	The air which is fou	and in the atmospher	re heats up by the hel	p of			
a	. moon	b. heater	c. gravity	d. sun			
3.	Water in oceans cha	inges into	when water gains the	ermal energy			
a	. Liquid water	b. water vapor	c. snow	d. sleet			
4.	The weather of the a	areas near the equato	or is				
a	. Hot and humid	b. hot and snowy	c. warm and humi	d d. warm and snowy			
5.	5. When the sun rays fall semi-inclined on earth's surface, it is distributed on a large						
	area giving	effect of heat a	and the weather become	me			
а	. High-warm	b. low-warm	c. high-cold	d. low-cold			
2.	Put $()$ or (\times) :-			()			
1.			d on water to survive				
2.				ne high density air ()			
3.	The heat of the sun	transfers through sp	ace to earth's atmosp	here by convection ()			
4.	Rains fall and collect	ct in oceans by the e	ffect of gravity force	()			
5.	. The weather in the area near the equator is very cold due to falling of sun rays						
	perpendicular on ea	rth's surface		()			
	Write the scientific		the following:-	om different water			
1.							
		phere then failing ba		form of rain, sleet or			
2	snow	1:11)			
2.	•		within liquids and ga				
	_		olecules fall down (
3.	it is the method by v	which heat of the sur	n transfers from the s	pace to earth's			
	atmosphere		()			



1. (Complete the following sentence:-
1.	Heat can transfer through the earth's atmosphere due to the effect ofcurrents
2.	Fresh water changes into water vapor when it thermal energy, while fresh
	water changes intowhen it loses thermal energy
3.	Cold water has more than warm water, so it moves under the warm water
4.	Due to convection currents, hot air moves cold air
5. (Give reason for:-
1.	Hot air moves upward above cold air
2.	The effect of heat is low in the area at the north and south of the equator
5. \	What happen to?
1.	The density of air if the cold air is warmed by the effect of solar energy

Concept 3.1 Lesson 4 Exam

1.	Cho	oose	the correct	ar	ISW	er:-

1.	. During washing your hand, water falls down from the water tap toward your hands						
	by the effect of.						
a	. Condensation	b. freezing	c. gravity	d. precipitation			
2.	Wind is produce	d by the help of					
a	. Water turbine	b. electric generator	c. solar radiation	d. electric motor			
3.	When warm air	contains big amount of	, the war	m air loses it in the			
	form of rain						
a	. Ice	b. liquid water	c. sleet	d. water vapor			
4.	The ai	r causes the formation	of many desert areas a	round the earth's			
	surface						
a	. Cold	b. moisted	c. dry	d. dusty			



2. Put $(\sqrt{})$ or (\times) :-

- 1. Duo to radiation currents, warm water moves above cold water ()
- 2. As air is warmed by the sun, the air will fall down ()
- 3. Wind is caused by the continuous exchange between warm air and cold air ()
- 4. Desert are formed by the effect of moist air ()

3. Write the scientific terms of each of the following:-

- 1. It's the main source which is responsible for warming of air and forming wind (..........)
- 2. Large areas of land which are formed due to the effect of dry air (......

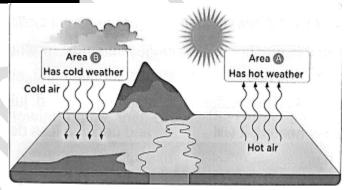
4. Give reason for:-

1. The formatting of wind is determined by the amount of solar radiation received by the earth

5. What happen to?

1. The movement of air when solar radiation heats up the air in an area

6. Look at the opposite figure, then complete the following sentence using the words between brackets:-



(more - solar radiation - loses - less)

- 1. Air in area (A) moves upward, because it has density
- 2. Air in area (A) becomes hot by the effect of
- 3. Air in area (B) moves downward, because it has..... density
- 4. When air in area (A) moves to area (B), it..... thermal energy, so it will fall down near the earth's surface



Concept 3.1 Model Exam

1.	1. Choose the correct answer:-							
2.	W	ater vapor that	is prese	ent in air cha	inges into	when	it hits a	a cold water bottle
a	. (Gas state	b. liqu	id state	c. steam	(d. juice	
3.	Tl	ne large salt lak	te in tur	key is dried	up duo to the	e increas	e in the	rate of process
a	. 1	Melting	b. free	ezing	c. evapora	ation	d. cond	densation
4.	W	ind helps in tra	ınsporti	ng water thr	ough the wat	ter cycle	by carr	ying
a		Sand grains	b. sma	all rocks	c. plant le	eaves	d. wa	ter vapor
2.	C	hoose from co	olumn	(B) what s	uits it in col	lumn (A):-	
		(A)				(B)		
		1. Condensat		_	of snow in a			
		2. Evaporation			ting of fog or			
		3. Precipitati	on		ting of a glac		area	
		4. Runoff			of shallow la			
				e. Flowing	g of river's w	ater into	a sea	
		1		2	3.			4
3.	P	ut $()$ or (\times) :-						
1.								
2.								
3.		ater comes out			_	-		oor ()
4.		the water cycle					_	
4.		rite the scien		-			_	,
		ne cycle that in						different water
								n of rain, sleet or
		low				(
2.			air wai	med by the		•		replaced by cooler
		r that flows from		•		(•
5.		omplete the f		•	using the	`		,
					vapor - r			v)
1.	W	hen	•		•			•
		ne amount of						
		aporation proc						
3.	Cold water has more than the warm water so it moves under the warm water							

4. When warm air contains enough water vapor, it loses this water in the form of



_	\sim				
6.	Correc	t tha i	Indor	inac	WORD.
w			111(1(4)	111141	wulu.

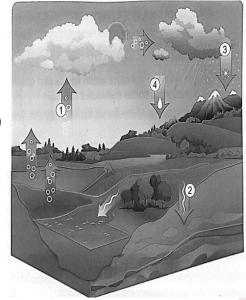
1.	. The heat of the sun transfers through the space to earth's atmosphere by convection		
	$(\dots \dots \dots)$		
2.	Desert are formed by the effect of moist air ()		
3.	Flamingo migrate to the large salt lake in turkey when the weather is very cold there		
	()		
4.	Evaporation of water means that liquid water changes into <u>ice</u> ()		
7.	Give reason for:-		
	Formation of clouds in the sky		
2.	Hot air move upward above cold air		
8.	What happen?		
1.			
2.	(If) You cover some leaves in a plant with a plastic bag then leave the plant in the direct sunlight for a while		

9. Look at the opposite figure, then put $(\sqrt{})$ or (\times) :-

- 1. Arrow number (1) indicates lose of thermal energy ()
- 2. Arrow number (2) indicates the effect of

the gravitational force on water ()

- 3. Arrow number (3) represents precipitation process ()
- 4. Arrow number (4) indicates gain of thermal energy ()





Concept 3.2 Lesson 1 Exam

	1. At the top of the mountain, the atmospheric pressure is and the						
	temperature is compared to the bottom of the mountain.						
a	a. Lower - lower b. higher - higher c. higher - lower d. lower - higher						
2.	A rain shadow is an area that is formed behind a						
a	. Tree b. mountain c. building d. bridge						
3.	If the temperature at the bottom of a mountain is 15°C, this means it may						
	reach°C at the top of this mountain.						
a	. 30 b. 25 c. 20 d. 2						
4.	Water vapor in the atmosphere can condense and form						
a	. Air b. clouds c. sunlight d. wind						
2.	Put $()$ or (\times) :-						
1.	People in desert areas face a lot of challenges in desert farming. ()						
2.	Precipitation occurs after condensation of water vapor in the sky. ()						
3.	3. The properties of the atmosphere at the top of the mountain and at its bottom are						
	similar ()						
4.	When the hot and humid air meet the cold and dry air, the hot air rises ()						
3. 1.	Write the scientific terms of each of the following:- A scientist who studies the atmosphere to understand Earth's weather ()						
2.	A side of mountain ranges at coastal regions that faces the coast ()						
3.	A side of mountain ranges at coastal regions in which the rain shadow phenomenon occurs						
4 (4.Give reason for:-						
1.	Sometimes people prefer to live in desert land instead of cities.						
5.	What happen to?						
1.	The atmospheric pressure, as we move up toward the top of a mountain.						
	The second section is a second section of the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a second section in the second section in the second section is a section in the second section in the section is a section in the second section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in						



6.complete the following se

- 1. The amount of rain that falls on deserts than that which falls in other biomes
- 2. The scientist who studies the earth's atmosphere is called
- 3. Farmers in desert may use the energy produced from the sun to power their farms
- 4. When the hot and humid air meet the cold and dry air, the air rises

Concept 3.2 Lesson 2 Exam

561156pt 612							
1. Choose the correct answer:-							
2. The barometer is used to measure							
a. air temperature. b. atmospheric pressure c. mass. d. length.							
3. Heat transfers from the object to the object.							
a. big – small b. small – big c. hot-cold d. cold-hot							
4. Land heats up and cools down compared to that of water.							
a. quickly – quickly b. slowly - slowly d. slowly – quickly c. quickly - slowly							
5. If the temperature of the sand in a desert is 50°C at noon, its temperature may reach							
°C at night.							
a. 20 b. 60 c. 70 d. 80							
2. Put (√) or (×):-							
1. The sand absorbs heat slower than water during daytime. ()							
2. Sand cools down in a shorter time than sea water during nighttime. ()							
3. Mapping data allows meteorologists to represent data about weather conditions. ()							
3.Write the scientific terms of each of the following:							
1. A scientist who studies the Earth's atmosphere and forecasts the weather. ()							
2. A device used to measure temperature. ()							
3. It is the weight of the air above an area. ()							
4. Give reason for:-1. At noon, we may not be able to stand barefoot on the sand of a beach in summer,							
but we can swim in the sea water							



2. What happen to.....?

1. The temperature of a desert sand at night

3. Look at the following picture that shows the using of concrete in regions with hot summers and cold winters, then choose the correct answer:-

1.	The temperature inside the building is regulated by absorbing	energy
	during the day and releasing it at night	

a. Chemical

b. sound

c. thermal

- d. magnetic
- 2. When sunlight falls on the concrete its temperature
- a. Increases

- b. don't change
- c. decreases slowly
- d. decreases quick



Concept 3.2 Lesson 3 Exam

 Choose the correct answ 	er:-
---	------

1. (. Convection is a way of transferring of heat in liquids and gases due to the difference						
i	in and						
a.	mass color	b. shape volume.	c. temperature - de	ensity. d. color temperature.			
2.]	Heat transfers by	y convection in	and				
a.	liquids gases.	b. solids liquids.	c. solids - gase	es. d. liquids space.			
3.	Convection curr	ents in the atmosph	ere are controlled b	y			
a.	precipitation.		b. moon's ro	tation.			
c.	the energy from	n the Sun.	d. Earth's rotat	ion.			
4.]	4. Heat is transferred through the atmosphere by						
a.	convection.	b. conduction.	c. reflection. d. a	absorption.			
5.	When air is heat	ed, its	changes				
a.	Mass	b. smell	c. color	d. density			



2. Put	()	or	(\mathbf{x})): -
--------	----	----	----------------	-------------

- 1. Cold air has more density than hot air. ()
- 2. By increasing the temperature of air, its density decreases. ()
- 3. When the air is cooled, it rises up. ()
- 4. Hot air rises above colder air. ()
- 5. Transfer of heat by convection occurs in solids, liquids and gases. ()

3. Choose from column (B) what suits it in column (A):-

(A)	(B)			
1. Anemometer	a. Measuring the atmospheric pressure			
2. Weather radar	b. Measuring the wind speed			
3. Rain gauge	c. Measuring the intensity of precipitation			
d. Measuring the amount of rain				
1	2			

4. Give reason for:-

1. When air is heated, it expands.

5. What happen to.....?

1. We boil water in a pot on the stove. (Concerning the movement of hot water and cold water)

Concept 3.2 Lesson 4 Exam

1. Choose the correct answer:-

- 1. Extreme weather conditions include all the following, except.....
 - a. drought b. flooding. c. sandstorms. d. sunrise.
- 2. The increase in the amount of rain may cause.....
 - a. flooding. b. drought. c. sandstorm. d. dust storm,
- 3. Drought affects all the following, except.....
 - a. people. b. plants. c. buildings. d. animals.
- 4. If a driver's visibility range in sunny weather is up to 5 km, the visibility range may reach..... in stormy weather.
 - a. 1 Km or less b. 6 Km c. 8 Km d. 10 Km



2. Put $(\sqrt{})$ or (\times) :-

- 1. Heavy rain may cause drought. ()
- 2. Although flooding is harmful, it also has some benefits. ()
- 3. Sandstorms blow up from a dry area such as seas and oceans. ()
- 4. Floods may cause death of people and animals. ()
- 5. Dust storms have harmful effects on the plane engines. ()

3. Write the scientific terms of each of the following:-

- 1. A phenomenon in which the condensed water vapor falls on the Earth's surface in the form of rain, snow, sleet or hail. (.....)
- 2. A phenomenon in which very strong winds blow up dust that reduces the visibility during driving cars. (.....)

4. Give reason for:-

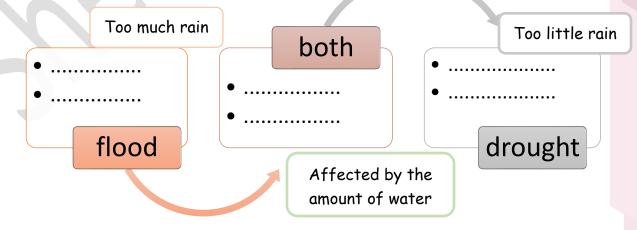
- 1. Floods have some benefits.
- 2. Sandstorms have harmful effects on human health

5. What happen to.....?

- 1. Buildings when they are subjected to strong floods.
- 2. Solar panels when dust accumulates on them.

6. Classify the following extreme weather conditions in venn diagram below using the sentences between brackets:-

(harmful to habitat – overflow of water – shortage of water – animals and humans are affected – the land becomes wet – the land becomes dry)





Concept 3.2 Model Exam

1.	C	thoose the correct a	nswer:-					
2.	T	he density of cold dry	air is	\dots that of hot h	numid air			
a	a. More than b. equal to c. less than d, similar to					ilar to		
3.	3. Heat transfers from the object to theobject							
a	a. $Big - small$ b. $hot - cold$ c. $small - big$ d. $cold - hot$							
4.	4. When air is heated, its changes							
a	l. S	Smell b. cold	r	c. density	d. mas	SS		
5.	D	rought affects the foll	owing, exc	ept				
a	l. 1	Animals b. plan	nts	c. people	d. bui	ldings		
6.	If	a driver's visibility ra	nge in suni	ny weather is u	p to 5 km,	the visibility range may		
		each in st	•					
			6 Km					
		eat is transferred through						
		convection. b. con						
1.	CI		What	sures it in con				
		(A) 1. Anemometer	a Maas	uring the atmos	(B)	ACCUTA		
		2. Weather radar		uring the atmos uring the wind	_	essure		
		3. Rain gauge		uring the intens	_	cipitation		
				uring the amou	-	F		
		1		2		3		
2.	Pu	$t (\sqrt{y}) $ or (\times) :-			•			
1.	W	hen rain doesn't fall, so	il may dry a	and plants may d	lie ()			
2.	В	y increasing the tempera	ature of air,	its density incre	ases ()			
3.	Sa	and cools down in a sho	rter time tha	an sea water dur	ing nighttin	ne ()		
4.	Tl	he properties of the atm	osphere at t	he top of the mo	untain and	at its bottom are similar ()		
3. ⁻	Wı	rite the scientific te	rms of ea	ch of the follo	wing:-			
1.	A	side of mountains rar	iges of coa	stal regions tha	t faces the	coast ()		
2.	A	device used to measu	re atmospł	neric pressure		()		
3.	It	is the weight of the ai	r above an	area		()		
4.	A	phenomenon in which	h very stro	ng winds blow	up dust the	at reduce the visibility		
		uring driving cars	·			()		
4.	Co	omplete the following	g sentenc	:e:-				
			_	_	increase	e - dry- wet)		
1.	E		•					
2.	Extreme hot temperatures may causes Heavy rain may cause							



3.	Sandstorms the chances of car accidents					
4.	1. Dust storms the water quality in irrigation canal					
5.	5. Floods result in formation of lands					
6.	Strong winds may blow up sand from a area such as deserts					
5.	Give reason for:-					
	1. Extreme weather became more danger in many places around the world					
2	Formsetting of forcing the coulty marries					
2.	Formatting of fog in the early morning					
6	What happen to?					
	The atmospheric pressure, as we move up toward the top of a mountain					
1.						
2.	Air density, as we move down toward the bottom of a mountain					
7.	The following diagram shows the steps of rain shadow phenomenon,					
	complete the following steps using the words below:-					
l						
	(rises - descends - cools - warms - condenses)					
	humid air belows against a mountain					
	air (1), then it (2)					
air (3), then precipitation occures						
	air (4), then it (5)					
an (), then it ()						
air dries the land						

Answers

Exam on lesson 1

4	CI.								
	. Choose the correct answer:-								
1.			ed up duo to the increase in the rate of						
2	a. Meltin	•		d. condensation					
۷.		r, rain falls duo to		d nuccinitation					
2	a. Condo	•		d. precipitation					
٥.	3. The distribution of energy on the earth's surface plays an important role in evaporation process in the water cycle								
	a. Electr	<u>-</u>	c. sound	d. kinetic					
4.			ich the evaporation process is						
	. The gre	=		d. absent					
			at suits it in column (A):-						
_	(A) (B)								
	1. Condensation		a. Falling of snow in an area						
		2. Evaporation	b. Formatting of fog on a road						
		3. Precipitation	c. Formatting of a glacier in an area	a					
		4. Runoff	d. Dying of a shallow lake						
			e. Flowing of river's water into a se	ea					
		1. b 2. d	3. a 4	<mark>. e</mark>					
२	3. Put (□) or (×):-								
		· ·	It lake in tunker is due to condensatio	on magaga (. v.					
	Dying up of water in the large salt lake in turkey is duo to condensation process (x								
	Flamingos migrate to the large salt lake in turkey when the weather is very cold there(×)								
	States of water change when water gains or loses energy ()								
	4. Falling of hall in coolest regions is an example of evaporation process (×)								
	. Write the scientific terms of each of the following:-								
	The main source of energy which affects the water cycle (the sun)								
	It is the process in which matter changes from liquid state to gas state (evaporation process)								
٥.	It is the step in which water flows along the earth's surface into the river and then into the ocean or sea								
=	(runoff)								
	. Give reason for:-								
1.		Formatting of fog in the early morning							
	Duo to condensation of water vapor that is found in the air								
	2. Changing of water from one state to another								

Due to gaining or losing of thermal energy

6. What happen to.....?

1. The level of water in a lake when the rate of evaporation increases

The level of water will decrease

2. The snow when sunlight falls on it

The snow will melt and change into liquid water

Exam on lesson 2

. Choose the correct answer:-							
1.	. Leakage of water into groundwater reservoirs is duo to the action of						
a	. Condensation b. gravity	c. precipitation	d. evaporation				
2.	. Both process happen duo to the decreases of thermal energy						
a	Melting-freezing	b. melting-condensation					
C	. freezing-condensation	d. melting-evaporation					
3.	. About 10% of the water vapor in air comes from transpiration of						
a	. Humans b. rocks	c. animals	<mark>d. plants</mark>				
4.	4. The form of water that is found in air and sometimes we cannot see it is the						
a	. Liquid water b. water vapor	c. ice	d. snow				
5.	When the water in clouds becomes too heavy, i	it falls on the ground by a	a process called				
a	Evaporation b. precipitation	c. condensation	d. collection				
? .]	Put (□) or (×):-						
	Water reservoirs on the earth include oceans an	nd seas only (×)				
2.	The two factors which control the movement of water in the water cycle are gravity force and						
	solar energy $(\sqrt{})$						
3.	. When the sun heats the water in a river, the water changes into gas state (\Box)						
4.							
5.	Clouds are made up of millions of tiny water de	roplets $(\sqrt{\square})$					
3. ¹	Write the scientific terms of each of the	following:-					
1.	They are the places of storing water on the eart						
2.	It is the form of evaporation that takes place the	rough the stomata which	are found in plant leaves				
3.	The force which causes moving down of water	from higher places to lo	wer places on the earth				
	(gravity)						
. Give reason for:-							
1.	. Moving down of glaciers from the top of a mountain to its foot						
	Duo to the effect of gravity on glaciers						

2. About 10% of water vapor in air comes from plants **Duo to transpiration process which happens by plants**

5. What happen to.....?

1. Moist air touches a cold bottle of water

Water vapor which is found in air condenses on the surface of the bottle

2. The water droplets in the clouds become very heavy

Water droplets fall in the form of rain

6. Look at the opposite figure, then answer the following sentence:-

- 1. This picture shows the water cycle (complete)
- 2. Choose the correct answer:
- 1. The rain falling on the mountain is a form of (precipitation cloud)
- 2. The rain on the mountains runs into the...... and goes to the ocean (river ocean)
- 3. When the sun heats up the water in the ocean, it will..... (run off evaporation)



Exam on lesson 3

1. Choose the correct answer:-

1	α α α		C .	•	11.	11 1
	(fathering the	Water of raine to	a tarm streams	rivers or	lakee 10	called
1.	Oamering me	water or rams to	o ioim sucams.	111001501	iancs is	Carrou

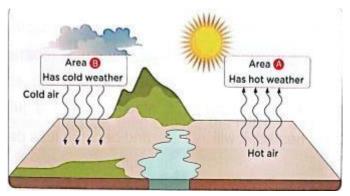
- a. Precipitation b. evaporation
- c. collection
- d. condensation
- 2. The air which is found in the atmosphere heats up by the help of
 - a. moon
- b. heater
- c. gravity
- d. sun
- 3. Water in oceans changes into...... when water gains thermal energy
- a. Liquid water
- b. water vapor
- c. snow
- d. sleet
- 4. The weather of the areas near the equator is.....
 - a. Hot and humid
- b. hot and snowy
- c. warm and humid
- d. warm and snowy
- 5. When the sun rays fall semi-inclined on earth's surface, it is distributed on a large area giving...... effect of heat and the weather become.....
 - a. High-warm
- b. low-warm
- c. high-cold
- d. low-cold

2. Put (\Box) or (\times) :-

1. 2. 3. 4. 5.	All living organisms on the earth depend on water to survive () Convection causes the movement of low density air above the high density air () The heat of the sun transfers through space to earth's atmosphere by convection (×) Rains fall and collect in oceans by the effect of gravity force () The weather in the area near the equator is very cold due to falling of sun rays perpendicular on earth's surface (×)
3 . ³	Write the scientific terms of each of the following:-
 2. 	the cycle that involves the continuous movement of water from different water bodies to the atmosphere then falling back to the earth in the form of rain, sleet or snow (the water cycle) it is the method by which heat transfers within liquids and gases, where hot molecules rise upward, while colder molecules fall down (convection)
3.	it is the method by which heat of the sun transfers from the space to earth's atmosphere (radiation)
4	Complete the following sentence:-
1	Heat can transfer through the earth's atmosphere due to the effect of convection
1.	currents
2.	Fresh water changes into water vapor when it gains thermal energy, while fresh water changes into ice when it loses thermal energy
3.	Cold water has more density than warm water, so it moves under the warm water
4.	Due to convection currents, hot air moves above cold air
5 . •	Give reason for:-
	Hot air moves upward above cold air
	Duo to the effect of convection, where hot air has less density, so it rises upward, while cold air
	has more density, so it falls down.
2.	The effect of heat is low in the area at the north and south of the equator Because the sun rays
	fall semi-inclined on earth's surface of these areas, so weather is warm.
_	
6 .	What happen to?
1.	<u> </u>
	The density of the air will decrease (become low)

Exam on lesson 4

1. (Choose the cor	<mark>rect answer:-</mark>		
1.	During washing you	ır hand, water falls down f	rom the water tap tow	ard your hands by the effect of
a.	Condensation	b. freezing	<mark>c. gravity</mark>	d. precipitation
2.	Wind is produced by	y the help of		
a.	Water turbine	b. electric generator	c. solar radiation	d. electric motor
3.	When warm air cont	=		loses it in the form of rain
	. Ice	b. liquid water	c. sleet	<mark>d. water vapor</mark>
		es the formation of many of		
a.	Cold	b. moisted	<mark>c. dry</mark>	d. dusty
2. <mark>]</mark>	Put (\Box) or (\times) :-			
		rents, warm water moves	above cold water (×)	
		the sun, the air will fall do		
	<u>*</u>	he continuous exchange be		old air <mark>(□)</mark>
		y the effect of moist air (
		ic terms of each of the		
		which is responsible for w		ming wind (<mark>the sun</mark>)
		which are formed due to the		
	Give reason for:-		3	
		rind is determined by the a	mount of solar radiation	on received by the earth
_•		•		tion and it is replaced by cooler
	air that flows from	nearby areas.		
5. <mark>\</mark>	What happen to	<mark>?</mark>		
1.	The movement of ai	r when solar radiation hea	ts up the air in an area	
	The air will move u	<mark>ipward in this area</mark>		
5. <mark>1</mark>	Look at the oppos	<mark>site figure, then comp</mark>	lete the following	sentence using the words
ŀ	<mark>oetween brackets</mark>	<mark>:-</mark>		



(more - solar radiation - loses - less)

- 1. Air in area (A) moves upward, because it has less density
- 2. Air in area (A) becomes hot by the effect of solar radiation
- 3. Air in area (B) moves downward, because it has **more** density
- **4**. When air in area (A) moves to area (B), it **loses** thermal energy, so it will fall down near the earth's surface

Model Exam

4		4 1	4	
	l 'haase '	the	correct	answer:-
•				

l . Choose the correct an	<mark>iswer:-</mark>		
1. Water vapor that is prese	nt in air changes into	wl	nen it hits a cold water bottle
a. Gas state b. l	<mark>iquid state</mark>	c. steam	d. juice
2. The large salt lake in turk	key is dried up duo to	the increase in the	rate ofprocess
a. Melting b. fa	reezing	c. evaporation	d. condensation
3. Wind helps in transporting	ng water through the	water cycle by carry	ing
a. Sand grains b. s	small rocks	c. plant leaves	<mark>d. water vapor</mark>
2. Choose from column	(B) what suits it i	<mark>in column (A):-</mark>	
(A)		(B)	
1. Condensation	a. Falling of snow	v in an area	
2. Evaporation	b. Formatting of f	og on a road	
3. Precipitation	c. Formatting of a	a glacier in an area	

4. Runoff	d. Drying of shallow lake
	e. Flowing of river's water into a sea

3. Put (\Box) or (\times) :-

- 1. As air is warmed by the sun, the air will fall down (\times)
- 2. Rains fall and collect in oceans by the effect of gravity force (\Box)

- 3. Water comes out from stomata to the air in the form of water vapor (\Box)
- 4. In the water cycle, the step that follows condensation process is runoff (\times)

4. Write the scientific terms of each of the following:-

- 1. The cycle that involves the continuous movement of water from different water bodies to the atmosphere then falling back to the earth in the form of rain, sleet or snow (water cycle)
- 2. It is caused when air warmed by the solar radiation rises and then replaced by cooler air that flows from nearby areas (wind)

5. Complete the following sentence using the words blow:-

(solar - water vapor – rain – density)

- 1. When water vapor in air hits a cold glass of juice it will condense
- 2. The amount of **solar** energy that reaches the earth affects the rate of evaporation process in the water cycle
- 3. Cold water has more **density** than the warm water so it moves under the warm water
- 4. When warm air contains enough water vapor, it loses this water in the form of rain

6. Correct the underlined word:-

- 1. The heat of the sun transfers through the space to earth's atmosphere by **convection** (radiation)
- 2. Desert are formed by the effect of **moist** air (**dry**)
- 3. Flamingo migrate to the large salt lake in turkey when the weather is **very cold** there (**warm**)
- 4. Evaporation of water means that liquid water changes into <u>ice</u>(water vapor)

7. Give reason for:-

1. Formation of clouds in the sky

Duo to condensation of water vapor into water droplets that adhere to particles of dust or smoke in the sky

2. Hot air move upward above cold air

Duo to the effect of convection, where hot air has less density, so it rises upward, while cold air has more density, so it falls down

8. What happen?

1. (To) The air temperature if there is no wind on earth

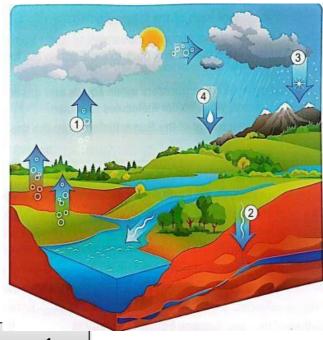
The regions around the equator become extremely hot and the poles will completely freeze

2. (If) You cover some leaves in a plant with a plastic bag then leave the plant in the direct sunlight for a while

Water droplets will be formed inside the bag

9. Look at the opposite figure, then put (\Box) or (\times) :-

- 1. Arrow number (1) indicates lose of thermal energy (\times)
- 2. Arrow number (2) indicates the effect of the gravitational force on water (\Box)
- 3. Arrow number (3) represents precipitation process (□)
- **4.** Arrow number (4) indicates gain of thermal energy (\times)



Concept 3.2

Exam on lesson 1

1	Choose	the	correct	answer:-
4.	CHUUSE	uic	COLLECT	answer.

1.	At the top of the	mountain, the atmospheri	c pressure is	and the temperature
	iscom	pared to the bottom of the	e mountain.	
a.	Lower - lower	b. higher – higher	c. higher – lower	d. lower – higher

- 2. A rain shadow is an area that is formed behind a.....
 - a. Tree b. **mountain** c. building d. bridge
- 3. If the temperature at the bottom of a mountain is 15°C, this means it may reach.....

°C at the top of this mountain.

- a. 30 b. 25 c. 20 d. **2**
- 4. Water vapor in the atmosphere can condense and form.....
- a. Air b. **clouds** c. sunlight d. wind

2. Put (\Box) or (\times) :-

- 1. People in desert areas face a lot of challenges in desert farming.
- 2. Precipitation occurs after condensation of water vapor in the sky. (\Box)
 - 3. The properties of the atmosphere at the top of the mountain and at its bottom are similar (×)
- 4. When the hot and humid air meet the cold and dry air, the hot air rises (\Box)

3. Write the scientific terms of each of the following:-

- 1. A scientist who studies the atmosphere to understand Earth's weather (**meteorologist**)
- 2. A side of mountain ranges at coastal regions that faces the coast (a wet side)

3. A side of mountain ranges at coastal regions in which the rain shadow phenomenon occurs (a dry side)

4. Give reason for:-

Sometimes people prefer to live in desert land instead of cities.
 Duo to the fast population growth in cities

5. What happen to.....?

1. The atmospheric pressure, as we move up toward the top of a mountain.

The atmospheric pressure decreases

6. complete the following sentence:-

- 1. The amount of rain that falls on deserts less than that which falls in other biomes
- 2. The scientist who studies the earth's atmosphere is called meteorologist
- 3. Farmers in desert may use the solar energy produced from the sun to power their farms
- 4. When the hot and humid air meet the cold and dry air, the hot air rises

Exam on lesson 2

1.	Choose the correct	answer:-			
1.	The barometer is used t	to measure			
a.	air temperature.	<mark>b. atmospheric</mark>	pressure	c. mass.	d. length.
2.	Heat transfers from the		object to the	obje	ect.
a.	big – small	b. small – big	<mark>c. hot-co</mark>	<mark>ld</mark>	d. cold-hot
3.	Land heats up	and cools down	ncomp	ared to that of wa	ter.
a.	<mark>quickly – quickly</mark>	b. slowly - slow	vly d. slowly –	quickly c. qı	uickly - slowly
4.	If the temperature of the	e sand in a desert	is 50°C at noon	, its temperature i	may reach
	°C at night.				
г	ı. <mark>20</mark>	b. 60	c. 70	d. 80	
2.	Put (\Box) or (\times) :-				
1.	The sand absorbs heat	t slower than wate	er during daytin	ne. <mark>(×</mark>	<mark>)</mark>
2.	Sand cools down in a	shorter time than	sea water durin	g nighttime. <mark>(🛚 🔻</mark>)
3.	Mapping data allows	meteorologists to	represent data a	about weather con	ditions. (🗆)
3 .	Write the scientific	terms of each	<mark>n of the follov</mark>	<mark>ving:</mark>	
1.	A scientist who studie	es the Earth's atmo	osphere and fore	ecasts the weather	. (<mark>meteorology</mark>)
2.	A device used to meas	sure temperature.	(<mark>thermometer</mark>))	
3.	It is the weight of the	air above an area	(<mark>atmospheric</mark>	<mark>pressure</mark>)	

4.	4. Give reason for:-		
1.	· • • • • • • • • • • • • • • • • • • •	foot on the sand of a bea	ch in summer, but we can swim
	in the sea water		
	Because sand is heated up faster than w	ater	
5	5. What happen to?		
	1. The temperature of a desert sand at night		
_•	The temperature of water will increase		
	6 . Look at the following picture that s		
	hot summers and cold winters, then		answer:-
1.	1. The temperature inside the building is regular absorbing energy during the day		
	releasing it at night	y and	
а	a. Chemical b. sound		2
	c. thermal d. magnet	ic	
2.	2. When sunlight falls on the concrete its tem	1000	
			MILES THE SOLE
а	a. <mark>Increases</mark> b. don't ch	ange	
c.	c. decreases slowly d. decrease	es quick	
	Eve	am on lesson 3	
L (. Choose the correct answer:-	-	金田 福田 東京 田田 日本 日本 日本 日本 日本 日本 日本
-	1. Convection is a way of transferring of heat i	n liquids and gases due	to the difference
	in and		
	a. mass color b. shape volume. c.		d. color temperature.
	2. Heat transfers by convection in		
	a. <mark>liquids gases</mark> . b. solids liquids.	•	• •
	Convection currents in the atmosphere are ca. precipitation.	b. moon's rotation	
	<u> </u>		
C.	c. <mark>the energy from the Sun.</mark>	d. Earth's rotation.	
4	4. Heat is transferred through the atmospher	e by	
			orption.
5.	5. When air is heated, its	changes.	
a.	a. Mass b. smell	c. color d.	density
2. P	. Put (□) or (×):-		
1.	 Cold air has more density than hot air. ()	
2.	2. By increasing the temperature of air, its den	sity decreases. ()
	3. When the air is cooled, it rises up. (×		
4.	4. Hot air rises above colder air. (🗆 💮		

(A)			(B)
1. Anemometer	a. Measuring	the atmospheric	pressure
2. Weather radar	b. Measuring	the wind speed	
3. Rain gauge	c. Measuring	the intensity of p	precipitation
	d. Measuring	the amount of ra	iin
1. b		2. c	3. d
<mark>ve reason for:-</mark>			
hen air is heated, it ex ecause the molecules	1	v from each oth	<mark>pr</mark>
cause the morecules	or all move away	y 11 om each om	u
hat hannan ta	9		
hat happen to			
			ement of hot water and cold water)
<mark>ot water moves up and</mark>	cold water falls do	<mark>own</mark>	
	l Ex	am on less	on 4
41			
Extreme weather cond	litions include all		cept
Extreme weather cond	litions include all		cept sunrise.
Extreme weather cond drought b. flood	litions include all ting. c. sand	storms. d.	sunrise.
Extreme weather cond drought b. flood The increase in the am	litions include all ing. c. sand	storms. d.	sunrise.
Extreme weather cond drought b. flood The increase in the am flooding. b. drou	itions include all ting. c. sand tount of rain may aght. c. sandst	storms. d. d. causeorm. d. dus	s <mark>sunrise.</mark> t storm,
Extreme weather cond drought b. flooding. b. drought b. drought affects all the	litions include all ting. c. sand to to the count of rain may aght. c. sandsterfollowing, except	storms. d. d. causeorm. d. duss	sunrise. t storm,
Extreme weather cond drought b. flood from the amplication b. drought affects all the people. b. plants.	itions include all ting. c. sand nount of rain may aght. c. sandst following, except c. building	storms. d. d. causeorm. d. dust	t storm,ls.
Extreme weather cond drought b. flooding. The increase in the amplication b. drought affects all the people. b. plants. If a driver's visibility responded to the condition of t	litions include all ting. c. sand to c. sandstands. c. sandstands. c. sandstands. c. building tange in sunny wear	storms. d. d. causeorm. d. dust	sunrise. t storm,
Extreme weather cond drought b. flood from the aminometric between the aminometric between the aminometric between the flooding. b. drought affects all the people. b. plants. If a driver's visibility many transmission in stores.	litions include all ting. c. sand nount of rain may aght. c. sandst following, except c. building range in sunny weather.	storms. d. d. cause	sunrise. t storm, ls. m, the visibility range may reach
Extreme weather cond drought b. flood from the aminometric between the aminometric between the aminometric between the aminometric between the people. b. plants. If a driver's visibility many transmission in stores.	litions include all ting. c. sand to c. sandstands. c. sandstands. c. sandstands. c. building tange in sunny wear	storms. d. d. causeorm. d. dust	t storm,ls.
Extreme weather cond drought b. flood from the amount b. drought b. drought affects all the people. b. plants. If a driver's visibility running in stores.	litions include all ting. c. sand nount of rain may aght. c. sandst following, except c. building range in sunny weather.	storms. d. d. cause	sunrise. t storm, ls. m, the visibility range may reach
Extreme weather conditions of the increase in the amount of the increase in the increa	ditions include all ting. c. sand to the count of rain may aght. c. sandst following, except c. building tange in sunny weather. b. 6 Km	storms. d. d. cause	sunrise. t storm, ls. m, the visibility range may reach
Extreme weather cond drought b. flooding. The increase in the amplication of the increase of the i	ditions include all ting. c. sand frount of rain may aght. c. sandster following, except c. building trange in sunny weather. b. 6 Km	storms. d. d. cause	t storm,
Extreme weather cond drought b. flooding. The increase in the amplication of the increase in the amplication b. drought affects all the people. b. plants. If a driver's visibility running in store the increase of the incre	ditions include all ting. c. sand frount of rain may aght. c. sandstate following, except c. building range in sunny wearmy weather. b. 6 Km	storms. d. d. cause	t storm,
Extreme weather cond drought b. flooding. The increase in the amplication of the increase in the increase of the i	ditions include all ting. c. sand to the c. sandstead of the c. sandstead of the c. sandstead of the c. building tange in sunny weather. b. 6 Km drought. (× trunful, it also has a try area such	storms. d. d. cause	t storm,
Extreme weather cond drought b. flooding. The increase in the amount of the increase in the increase i	ditions include all ting. c. sand to the c. sandstead of the c. sandstead of the c. sandstead of the c. building tange in sunny weather. b. 6 Km drought. (× trunful, it also has a try area such	storms. d. d. cause	t storm,
Extreme weather conditions of the increase in the amulation of the increase of the increas	ing. c. sand fount of rain may aght. c. sandst following, except c. building range in sunny wearmy weather. b. 6 Km Irought. (× rmful, it also has a for people and and fine control of people and control of people and control of people control of people and control of people control of peop	storms. d. cause orm. d. dust t s. d. anima ather is up to 5 kr c. 8 Km some benefits. as seas and ocea imals.	t storm,
drought b. flooding. The increase in the amainst the drought b. drought affects all the people. b. plants. If a driver's visibility respectively.	ing. c. sand fount of rain may aght. c. sandst following, except c. building range in sunny wearmy weather. b. 6 Km Irought. (× rmful, it also has a for people and animal of people and animal ful effects on the properties.	storms. d. dust cause	t storm,

- **a.** A phenomenon in which the condensed water vapor falls on the Earth's surface in the form of rain, snow, sleet or hail. (**precipitation**)
- b. A phenomenon in which very strong winds blow up dust that reduces the visibility during driving cars. (dust storm)

4. Give reason for:-

- 1. Floods have some benefits.
 - Because some ecosystems depend on floods such as ecosystems along the Nile
- 2. Sandstorms have harmful effects on human health

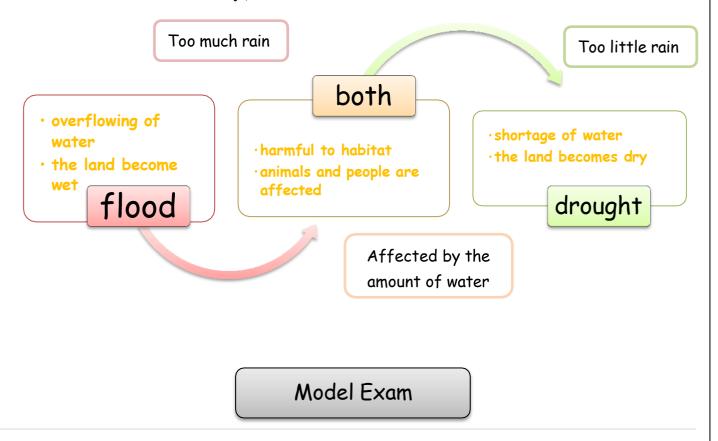
 Because sandstorms harm the human eyes and respiratory system

5. What happen to.....?

- 1. Buildings when they are subjected to strong floods.
 - They may be damaged by moving or breaking them
- 2. Solar panels when dust accumulates on them.

 Solar panels stop generating energy
- **6.** Classify the following extreme weather conditions in venn diagram below using the sentences between brackets:-

(harmful to habitat – overflow of water – shortage of water – animals and humans are affected – the land becomes wet – the land becomes dry)



1. Choose the correct answer:-						
1. The density of cold dry air is that of hot humid air						
a. More than b. equal to c. less than d, similar to						
	object to the	object				
ot – cold	c. small – big	d. cold – hot				
	changes					
lor	c. <mark>density</mark>	d. mass				
wing, except.						
	c. people	d. <mark>buildings</mark>				
	eather is up to 5 km	n, the visibility range may reach				
	a 9 Vm	d 10 Vm				
_	-					
ilaactioii.	c. refrection.	a. ueserpaen.				
(B) what su	<mark>iits it in column</mark>		\neg			
d. Measuring the amount of fam						
1. b 2. c 3. d						
3. Put (□) or (×):-						
1. When rain doesn't fall, soil may dry and plants may die ()						
2. By increasing the temperature of air, its density increases (\times)						
3. Sand cools down in a shorter time than sea water during nighttime (□)						
4. The properties of the atmosphere at the top of the mountain and at its bottom are similar (\times)						
4. Write the scientific terms of each of the following:-						
1. A side of mountains ranges of coastal regions that faces the coast (wet side)						
2. A device used to measure atmospheric pressure (barometer)						
above an area	(<mark>atmospheric pre</mark>	<mark>ssure</mark>)				
very strong w	inds blow up dust t	that reduce the visibility during driving c	ars			
ng sentence:	<mark>:-</mark>					
(flooding – drought – decrease – increase – dry- wet)						
	ir is	ir is	ir is that of hot humid air qual to c. less than d, similar to			

- 1. Extreme hot temperatures may causes **drought**
- 2. Heavy rain may cause **flooding**
- 3. Sandstorms increase the chances of car accidents
- 4. Dust storms decrease the water quality in irrigation canal
- 5. Floods result in formation of wet lands
- **6.** Strong winds may blow up sand from a **dry** area such as deserts

6. Give reason for:-

- Extreme weather became more danger in many places around the world Duo to global climate change
- Formatting of fog in the early morning
 Duo to condensation of water vapor that found in the air

7. What happen to.....?

- 1. The atmospheric pressure, as we move up toward the top of a mountain **Atmospheric pressure will decrease**
- 2. Air density, as we move down toward the bottom of a mountain Air density will increase
- 8. The following diagram shows the steps of rain shadow phenomenon, complete the following steps using the words below:-

(rises – descends – cools – warms – condenses)

humid air belows against a mountain

air (rises), then it (cools)

air (condenses), then precipitation occures

air (descends), then it (warms)

air dries the land

Science – grade 6 - February Revision مراجعة شهر فبراير – مادة الساينس – الصف السادس الابتدائي Unit 3 – concept 1 – questions & answers

Lesson 1

<u>Ch</u>	oose the correct answer:
1.	The large salt lake in Turkey is dried up due to the increase in the rate of process.
	a) melting b) freezing c) evaporation d) condensation
2.	Increasing and decreasing of water level in some lakes is due to the transfer of through the water cycle. a) rocks b) energy c) work d) wind
3.	In winter, rain falls due to process. a) condensation c) collection b) evaporation d) precipitation
4.	When water runs through a river then into a sea, this step is called
5.	The distribution of energy on the Earth's surface plays an important role in evaporation process in the water cycle. a) electrical b) solar c) sound d) kinetic
6.	All the following are considered as the main processes in transferring water through water reservoirs, except
7.	Moderate regions are areas in which the evaporation process is
	a) the greatest b) the smallest c) moderate d) absent

Choose from column (B) what suits it in column (A):

(A)	(B)	
 Condensation Evaporation Precipitation Runoff 	a. Falling of snow in an area.b. Formation of fog on a road.c. Formation of a glacier in an area.d. Drying of a shallow lake.e. Flowing of river's water into a sea.	

1 UL (V) UI (/\/.	Put	(v)	or	(X) :
-------------------	-----	-----	----	----	------------

1)	Drying up of water in the large salt lake in Turkey is due to		
	condensation process.	()
2)	Transferring of energy in the water cycle causes increasing and		
	decreasing of water level in some lakes.	()
3)	Flamingos migrate to the large salt lake in Turkey when the		
	weather is very cold there.	()
4)	States of water change when water gains or loses energy.	()
5)	In the water cycle, the step that follows condensation process is	S	
	runoff.	()
6)	Hottest regions are regions in which the evaporation process is	th	e
	greatest.	()
7)	Falling of hail in coolest regions is an example of evaporation		
	process.	()
14/	rite the scientific term of each of the following:		
	The main source of energy which affects the water cycle.		
_	(١
つ_	It is the process in which water falls on Earth in the form of rain		• ,
	·		١
2	sleet, snow or hail. ()
5 -	It is the process in which matter changes from liquid state to ga		
	state. (.)	

4- It is the process in which matter changes from gas state to liquid
state. ()
5- It is the step in which water flows along the Earth's surface into
the river and then into the ocean or sea. ()
6- It is the step in which rainwater falling on the Earth's surface is
collected in different water bodies. ()
Complete the following sentences:
1. Flamingos migrate to the large salt lake in Turkey when the
weather becomes, and they are feed on
which are found in this lake.
2. Formation of fog is due to the of water vapor on a
field in early morning.
3. The three main processes which are responsible for movement of
water through the water reservoirs on the Earth are evaporation,
and
4. Energy of the sun causes the changing of liquid water into
by evaporation process.
5. The amount of energy that reaches the Earth
affects the rate of evaporation process in the water cycle.
Give reasons for:
Give reasons for: ♣ Drying up of the large salt lake in Turkey in summer season.
+ Drying up of the large sait lake in furkey in summer season.
Formation of fog in the early morning.
♣ Changing of water from one state to another.
What happens to?

❖ The level of water in a lake when the rate of evaporation

increases.

❖ The snow	when sunlight fal	lls on it.	
Look at the c	opposite figure, t	hen complete the f	following sentences:
as hottes 2- Areas as mode	and are rate areas. and are	e considered	A B B C D D E
1. Melting of that come	forrect answer: f snow at the two es from the b) moon	poles, is due to the c) sun	e thermal energy d) electricity
of			is due to the action on d) evaporation
except		c) moon	
to a) gas –	t of air can chang state by evapo liquid I – gas	oration process. c) solid - gas	er fromstate

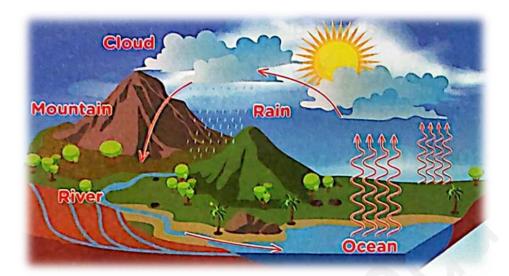
5.	the decrease of thermal energy.
	 a) melting – freezing b) melting – condensation d) melting – evaporation
6.	The sun heats the water of seas and oceans and this leads to occurrence of process. a) freezing b) melting c) evaporation d) condensation
7.	The form of evaporation process that takes place from the leaves of plants is called
8.	About 10% of the water vapor in air comes from transpiration of
	a) humans b) rocks c) animals d) plants
9.	Water vapor that is present in air changes into when it hits a cold water bottle. a) gas state b) liquid water c) steam d) juice
10	Clouds are formed due to process.a) melting b) collection c) condensation d) freezing
11	The form of water that is found in air and sometimes we cannot see it is the a) liquid water b) water vapor c) ice d) snow
12	2. The condensed water vapor in clouds returns back to the Earth's surface in the form of all the following, except
13	3. When water vapor rises into the atmosphere, it cools and changes into by condensation process. a) glaciers b) snow c) groundwater d) clouds

14.	When the water in clo	ouds becomes too heavy, it falls on th	ıe
gr	ound by a process calle	ed	
a)	evaporation	c) condensation	
b)	precipitation	d) collection	
<u>Put (</u>	√) or (X):		
1) Th	ne water cycle is a mov	ement of water through different wa	iter
re	servoirs on the Earth.		()
2) W	ater reservoirs on the I	Earth include oceans and seas only.	()
3) Tł	ne two factors which co	entrol the movement of water in the	water
СУ	cle are gravity force an	d solar energy.	()
4) G	laciers move from the t	op of mountains to the bottom of	
m	ountains due to the eff	ect of gravity.	()
5) Tł	ne motion of air from o	ne place to another leads to changin	ig of
W	ater vapor into water ir	n the air.	()
6) N	elting and transpiration	n processes only occur by cooling.	()
7) W	hen the sun heats the	water in a river, the water changes ir	nto
ga	is state.		()
8) W	ater comes out from st	comata to the air in the form of wate	r
Vá	ipor.		()
9) Yo	ou can see transpiration	process when you set a plant its lea	ives
cc	overed with a plastic ba	g in the sunlight.	()
10)	As a result of low tem	perature, water returns back into wa	ater
Vá	ipor.		()
11)	Clouds consist of tiny	water droplets that have condensed	out
of	the air.		()
12)	There is no water four	nd in the air around us.	()
13)	Evaporation of water	means that liquid water changes into	ice.
			()
14)	When water vapor co	ols in the sky, it forms clouds.	()
15)	Clouds are made up o	f millions of tiny water droplets.	()

W	rite the scientific term of each of the following:
1-	They are the places of storing water on the Earth.
	()
2-	The force which causes moving down of water from higher places
	to lower places on the Earth. ()
3-	It is a form of evaporation that takes place through the stomata
	which are found in plant leaves. ()
4-	It is the process which helps in formation of clouds in the sky.
	()
<u>Co</u>	omplete the following sentences:
1.	The movement of water through different water reservoirs on the
	Earth is called the
2.	The water starts to move or change its way of movement when a
	affects it.
3.	The force which causes moving down of water from the top of a
	mountain is called
4.	Transpiration is a form of process, while condensation
	takes place by the decrease in the energy.
5.	Evaporation causes changing of the water in rivers and seas into
6.	Water vapor comes out from plant leaves through the
7.	When in air hits a cold glass of juice, it will condense.
8.	Water vapor condenses in the sky to form
9.	Drying up of a shallow pond in summer is an example of
	process.
10	Clouds are made up of millions of tiny droplets.
11	When the water droplets in the clouds become too heavy, it
	causes process.

Give reasons for: ♣ Moving down of glaciers from the top of a mountain to its foot.
Changing of some amount of water in water bodies into water vapor.
4 About 10% of water vapor in air comes from plants.
♣ Formation of clouds in the sky.
What happens if? ❖ Water of seas and oceans gains big amount of thermal energy.
❖ You cover some leaves in a plant with a plastic bag then put this plant in the direct sunlight for awhile.
❖ Moist air touches a cold bottle of water.
❖ Water vapor in air condenses in the sky.
❖ The water droplets in the clouds become very heavy.

Look at the following figure, then answer the questions below:



• This picture shows the (<u>Complete</u>).

Choose the correct answer:

- The rain falling on the mountain is a form of
 a) cloud
 b) precipitation
 c) evaporation
 d) condensation
- The rain on the mountain runs into the and goes to the ocean.
 - a) sun b) river c) ocean d) groundwater
- When the sun heats up the water in the ocean, it will
 a) run off
 b) condense
 c) precipitate
 d) evaporate

Lesson 3

Choose the correct answer:

- 1. Gathering the water of rains to form streams, rivers or lakes, is called
 - a) precipitation b) evaporation c) collection d) condensation
- 2. Due to convection, air moves upward above air.
 - a) cold-hot b) hot cold c) cold warm d) warm hot

3.	The air which is fo thea) moon b) h				•
4.	When a liquid is he and	er c)	expand – lighte	r	e less dense
5.	Water in oceans clenergy. a) liquid water				
6.	Fresh water stored the effect of				·
7.	The weather of the a) hot and humid b) hot and snowy	c)	the equator is warm and hum warm and snow	id	
8.	Due to the very lit Earth, large areas a) forests b)	of	•	ed.	
9.	When the sun rays distributed on a la the weather become a) high – warm	rge area givi nes	ng	effect c	of heat and

Choose from column (B) what suits it in column (A):

(A)	(B)
1) The weather becomes hot when	a) the sun rays fall semi-inclined on Earth's surface.b) the sun rays fall horizontally on
2) The weather becomes warm when	Earth's surface. c) the sun rays fall perpendicular on Earth's surface.
3) The weather becomes very cold when	d) the sun rays fall very inclined on Earth's surface.

Put (√) *or* (X):

1)	All living organisms on the Earth depend on water to survive.	()
2)	Falling of sleet in an area is an example of precipitation process		
		()
3)	Convection causes the movement of low density air above the		
	high density air.	()
4)	Convection currents in Earth's atmosphere help in determining	th	ıe
	regional climate.	()
5)	The heat of the sun transfers through space to Earth's atmosph	er	e
	by convection.	()
6)	When freshwater changes into snow and ice, this means that fr	es	h
	water gains thermal energy.	()
7)	Rains fall and collect in oceans by the effect of gravity force.	()
8)	There is a very little rains in desert areas.	()
9)	The weather in the area near the equator is very cold due to fall	llir	ηg
	of sun rays' perpendicular on Earth's surface.	()
10) When the sun rays fall semi-inclined on Earth's surface, they		
	will distribute on a large area giving low effect of heat	(١

W	rite the scientific term of each of the following:
1-	The cycle that involves the continuous movement of water from different water bodies to the atmosphere then falling back to the
	Earth in the form of rain, sleet or snow. (
2-	It is the method by which heat transfers within liquids and gases, where hot molecules rise upward, while colder molecules fall down.
3-	It is the method by which heat of the sun transfers from the space to Earth's atmosphere. (
<u>Cc</u>	omplete the following sentences:
1.	Heat can transfer through the Earth's atmosphere due to the
	effect of currents.
2.	The difference in the and in water
	of oceans and atmosphere occurs due to the unequal heating of
	land and oceans.
3.	Fresh water changes into water vapor when it
	thermal energy, while fresh water changes into
	when it loses thermal energy.
4.	Rainwater is collected in oceans by the effect of
	force.
5.	The weather of the area faraway from the equator is
	because the sun rays fall on the Earth's
	surface at this area.
6.	Cold water has more than warm water, so it moves
	under the warm water.
7.	The sun produces the energy which causes the movement of
	currents that produce ocean currents and
8.	Due to convection currents, hot air moves cold air.

Give reasons for:
Hot air moves upward above cold air.
4 The weather in the area near the equator is hot.
The effect of heat is low in the area at the north and south of the equator.
equate
M/hat hannons to 2
What happens to?
The weather if the sun rays fall very inclined on an area.
The density of air if the cold air is warmed by the effect of solar energy.
❖ The density of air if the cold air is warmed by the effect of solar

Look at the following figure, then put (\lor) or (x):

- Arrow number (1) indicates loss of thermal energy.
- Arrow number (2) indicates the effect of the gravitational force on water.
- Arrow number (3) represents precipitation process. ()
- Arrow number (4) indicates gain of thermal energy.



Lesson 4

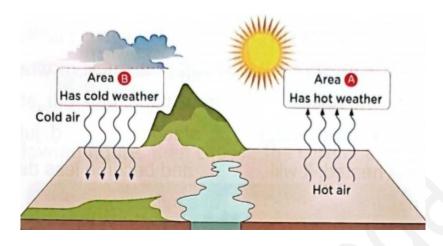
Choose the correct answer:

1.	During washing your hands, water falls down from the water tap toward your hands by the effect of
2.	All the following are examples of convection currents effect, except a) cold air moves above hot air b) very hot air moves above warm air c) hot water moves above cold water d) warm water moves above cold water
3.	Wind is produced by the help of a) water turbine b) electric generator c) solar radiation d) electric motor
4.	Wind is formed when rises and replaced by that flows from nearby areas. a) warm air - cold air c) cold water - warm water b) warm water - cold water d) cold air - warm air
5.	When warm air contains big amount of, the warm air loses it in the form of rain. a) ice b) liquid water c) sleet d) water vapor
6.	When warm air is cooled, it will move a) upward b) downward c) forward d) backward
7.	The air causes the formation of many desert areas around the Earth's surface. a) cold b) moisted c) dry d) dusty
8.	Wind helps in transporting water through the water cycle by carrying

a) sand grains	b) small rocks	c) plant leaves	d) water vapor
Put (√) or (X):			
1) Solar energy is t	he main energy	which the causes	the movement
of convection cu	irrents in atmosp	ohere and oceans.	()
2) Due to radiation	currents, warm	water moves abo	ve cold water.
			()
3) The direction of	wind is determi	ned by the amoun	t of solar
radiation receive	ed by the Earth.		()
4) As air is warmed	I by the sun, the	air will fall down.	()
5) Wind is caused by	by the continuou	is exchange betwe	en warm air and
cold air.			()
6) When the warm	air flows away f	rom its place to a	nother one, it
will cool and mo	ve downward.		()
7) Deserts are form	ned by the effect	of moist air.	()
8) Unequal heating	g of the Earth be	tween the poles a	nd the equator
generates wind.			()
Write the scientific	term of each of	f the following:	
1- It is caused whe	n air warmed by	the solar radiatio	n rises and then
replaced by cool	er air that flows	from nearby area	S.
		()
2- It is the main so	urce which is res	sponsible for warn	ning of air and
forming wind.		()
3- Large areas of la	nd which are for	rmed due to the e	ffect of dry air.
		()
Complete the following sentences using the words below:			
(rotation - deserts - direction - upward - solar radiation - winds -			

1.	The global wind system of the Earth consists of
	that blow in a constant over long periods of time.
2.	The direction of wind is determined by the amount of
	received by the Earth and of the
	Earth.
3.	When warm air contains enough water vapor, it loses this water in
	the form of
4.	When warm air is cooled, it will move, while cold air
	moves when it is warmed.
5.	Dry air causes the formation of large areas of around
	the Earth's surface.
_	
_	<u>ve reasons for:</u>
•	On adding warm water to cold water without shaking, the warm
	water stays above cold water without mixing.
	water stays above cold water without mixing.
 4	The formation of wind is determined by the amount of solar
	The formation of wind is determined by the amount of solar radiation received by the Earth.
	The formation of wind is determined by the amount of solar
••••	The formation of wind is determined by the amount of solar radiation received by the Earth.
	The formation of wind is determined by the amount of solar radiation received by the Earth.
	The formation of wind is determined by the amount of solar radiation received by the Earth. Shat happens to?
 ••	The formation of wind is determined by the amount of solar radiation received by the Earth. Shat happens to? The air temperature if there is no wind on Earth.
 ••	The formation of wind is determined by the amount of solar radiation received by the Earth. That happens to? The air temperature if there is no wind on Earth. The movement of air when solar radiation heats up the air in an
 ••	The formation of wind is determined by the amount of solar radiation received by the Earth. Shat happens to? The air temperature if there is no wind on Earth.

Look at the following figure, then complete the following sentences using the words between brackets:



(more - solar radiation - loses - less)

- Air in area (A) moves upward, because it has density.
- Air in area (A) becomes hot by the effect of
- When air in area (A) moves to area (B), it thermal energy, so it will fall down near the Earth's surface.

<u>Answers</u>

Lesson 1

Choose:

1. c 2. b 3. d 4. a 5. b 6. b 7. c

Choose:

1. **b** 2. **d** 3. **a** 4. **E**

Put (*√*) *or* (*X*):

1) X 2) $\sqrt{}$ 3) X 4) $\sqrt{}$ 5) X 6) $\sqrt{}$ 7) X

Write the scientific term:

1- The sun 4- Condensation process

- 2- Precipitation process
- 3- Evaporation process
- 5- Runoff
- 6- Collection

Complete:

- 1. warm algae
- 2. condensation
- 3. condensation precipitation
- 4. water vapor
- 5. solar

Give reasons for:

- Due to the increase in the evaporation of the lake water.
- ♣ Due to condensation of water vapor that is found in the air.
- Due to gaining and losing of thermal energy.

What happens to ...?

- The level of water will decrease.
- **❖** The snow will melt and change into liquid water.

Look then complete:

- 1- **C D**
- 2-B-E
- 3- A F

Lesson 2

Choose:

- 1. c 2. b 3. c 4. b 5. c 6. c 7. a 8. d
- 9. **b** 10. **c** 11. **b** 12. **a** 13. **d** 14. **B**

Put (V) or (X):

- 1) $\sqrt{}$ 2) \times 3) $\sqrt{}$ 4) $\sqrt{}$ 5) $\sqrt{}$ 6) \times 7) $\sqrt{}$ 8) $\sqrt{}$
- 9) $\sqrt{10}$ X 11) $\sqrt{12}$ X 13) X 14) $\sqrt{15}$ $\sqrt{15}$

Write the scientific term:

- 1- Water reservoirs
- 3- transpiration process

2- Gravity

4- condensation process

Complete:

1. Water cycle

7. Water vapor

2. Force

8. clouds

3. **Gravity**

9. evaporation

4. Evaporation – thermal 10. water

5. Water vapor 11. precipitation

6. Stomata

Give reasons for:

- **Use to the effect of gravity on glaciers.**
- Due to evaporation process, as a result of gaining of thermal energy.
- Due to transpiration process which happens by plants.
- **♣** Due to condensation of water vapor into water droplets that adhere to particles of dust or smoke in the air.

What happens to ...?

- ***** Water of seas and oceans changes into water vapor in air.
- ***** Water droplets will be formed inside the bag.
- Water vapor which is found in air condenses on the surface of the bottle.
- Clouds are formed in the sky.
- Water droplets fall in the form of rain.

Look then answer:

Water cycle

Choose: 1. **b** 2. **b** 3. **d**

Lesson 3

Choose:

1. c 2. b 3. d 4. c 5. b 6. c 7. a 8. d 9. b

Choose:

1. c 2. a 3. d

Put (√) *or* (X):

1) \checkmark 2) \checkmark 3) \checkmark 4) \checkmark 5) X 6) X 7) \checkmark 8) \checkmark

10) X 11) √

Write the scientific term:

- 1- The water cycle
- 2- convection
- 3- radiation

Complete:

- 1. convection
- 2. temperature densities
- 3. gains ice
- 4. gravity
- 5. very cold very inclined
- 6. density
- 7. convection winds
- 8. above

What happens to ...?

- The weather of this area Becomes very cold.
- The density of the air will Decrease (becomes low).

Give reasons for:

- ♣ Due to the effect of convection, where hot air has less density, so it rises upward, while cold air has more density, so it falls down.
- Because the sun rays fall perpendicular on Earth's surface giving high effect of heat.
- ♣ Because the sun rays fall semiinclined on Earth's surface of these areas, so the weather is

Look then put (\lor) or (X): 1. X 2. \lor 3. \lor 4. X

Lesson 4

Choose:

- 1. c 2. a 3. c 4. a 5. d 6. b 7. c 8. D
- <u>Put (v) or (X):</u>
- 1) $\sqrt{}$ 2) \times 3) $\sqrt{}$ 4) \times 5) $\sqrt{}$ 6) $\sqrt{}$ 7) \times 8) $\sqrt{}$

Write the scientific term:

1- Wind 2- the sun 3- deserts

Complete:

1. winds – direction 4. downward – upward

- 2. solar radiation rotation 5. deserts
- 3. rain

Give reasons for:

- **♣** Due to the effect of convection, as warm water has less density than cold water, so warm water will stay above cold water.
- ♣ Because warm air rises upward when it is heated by solar radiation, and it is replaced by cooler air that flows from nearby areas.

What happens to ...?

- **❖** The regions around the equator become extremely hot and the poles will completely freeze.
- **❖** The air will move upward in this area.

Look then complete:

- less
- solar radiation
- more
- loses

Primary 6

Question 1

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Choose	the correct answer:
1.The distribution of	energy on the Earth's surface plays an
important role in evapora	ation process in the water cycle.
a. electrical b. solar	c. sound d. kinetic
2. Water vapor that is present	ent in air changes intowhen it
hits a cold-water bottle.	
a. gas state b. liquid w	
3. When a liquid is heated,	it will and become less dense
and	
a. expand-heavier.	b. contract-lighter.
c. expand-lighter.	d. contract-heavier.
4.The large Salt Lake in Tu	irkey is dried up due to the increase in
the rate ofproce	
	c. evaporation d. condensation
	c. evaporation d. condensation ng water through the water cycle by
5.Wind helps in transporting	ng water through the water cycle by
5.Wind helps in transporting carrying a. sand grains. b. small rock	ng water through the water cycle by cs. c. plant leaves. d. water vapor.
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing	ng water through the water cycle by cs. c. plant leaves. d. water vapor. ng of water level in some lakes is due to
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing the transfer ofth	ng water through the water cycle by cs. c. plant leaves. d. water vapor. ng of water level in some lakes is due to arough the water cycle.
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing the transfer ofthe a. rocks b. energing the transfer of	ng water through the water cycle by cs. c. plant leaves. d. water vapor. ng of water level in some lakes is due to nrough the water cycle. gy c. work d. wind
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing the transfer ofth	ng water through the water cycle by cs. c. plant leaves. d. water vapor. ng of water level in some lakes is due to nrough the water cycle. gy c. work d. wind
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing the transfer ofthe a. rocks b. energing the transfer of	ng water through the water cycle by cs. c. plant leaves. d. water vapor. ng of water level in some lakes is due to nrough the water cycle. gy c. work d. wind
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing the transfer ofthe a. rocks b. energy 7.In winter, rain falls due to	ng water through the water cycle by cs. c. plant leaves. d. water vapor. ng of water level in some lakes is due to nrough the water cycle. gy c. work d. wind oprocess.
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing the transfer ofthe a. rocks b. energy 7.In winter, rain falls due to a. condensation c. collection	ng water through the water cycle by cs. c. plant leaves. d. water vapor. ng of water level in some lakes is due to nrough the water cycle. gy c. work d. wind oprocess. b. evaporation
5.Wind helps in transporting carrying a. sand grains. b. small rock 6.Increasing and decreasing the transfer ofthe a. rocks b. energy 7.In winter, rain falls due to a. condensation c. collection	ng water through the water cycle by as. c. plant leaves. d. water vapor. ng of water level in some lakes is due to nrough the water cycle. gy c. work d. wind oprocess. b. evaporation d. precipitation

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9.All the following are conside	ered as the main processes in	
transferring water through w	ater reservoirs, except	
a. condensation.	b. collection.	
c. evaporation.	d. precipitation.	
10.Moderate regions are areas	in which the evaporation process	
is		
a. the greatest.b. the smalle	est. c. moderate. d. absent.	
11.Melting of snow at the two poles, is due to the thermal energy		
that comes from the		
a. wind. b. moon.	c. Sun. d. electricity.	
12.Leakage of water into groun	dwater reservoirs is due to the	
action of		
a. condensation. b. gravity.	c. precipitation. d. evaporation.	
13.The rain on the mountain ru	ns into theand goes to the	
ocean.		
a. Sun b. river	c. ocean d. groundwater	
14.When the Sun heats up the	water in the ocean, it will	
a. run off. b. condense.	c. precipitate. d. evaporate.	
15.Gathering the water of rains	to form streams, rivers or lakes, is	
called		
a. precipitation. b. evaporation	n. c. collection. d. condensation.	
16.Due to convection,air	moves upward aboveair.	
a. cold-hot b. hot-cold	c. cold-warm d. warm-hot	
17. The air which is found in the	atmosphere heats up by the help of	
the		
a. moon. b. heater.	c. gravity. d. Sun.	
18.During washing your hands,	water falls down from the water tap	
toward your hands by the ef	fect of	
a. condensation.	b. freezing.	
c. gravity.	d. precipitation.	
	(_ tot(o t)	
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19.All the following are example	es of convection currents effect,
except	
a. cold air moves above hot air.	b. very hot air moves above warm air.
c. hot water moves above cold water	. d. warm water moves above cold water.
20. Wind is produced by the help	o of
a. water turbine.	b. electric generator.
c. solar radiation.	d. electric motor.
21.Wind is formed whenrise	es and replaced by that
flows from nearby areas.	
a. warm air -cold air	b. warm water- cold water
c. cold water-warm water	d. cold air - warm air
22. When warm air contains big	amount of, the warm air loses
it in the form of rain.	
a. ice b. liquid water	c. sleet d. water vapor
23. When warm air is cooled, it v	vill move
a. upward. b. downward.	c. forward. d. backward
24.Theair causes the form	nation of many desert areas aroun
the Earth's surface.	
a. cold b. moisted	C. dry d. dusty
25. Wind helps in transporting w	rater through the water cycle by
carrying	
a. sand grains. b. small rocks.	c. plant leaves. d. water vapor.
26.Fresh water stored undergro	und in the form of groundwater by
the effect of	
a. condensation. b. electricity.	c. gravity. d. evaporation.
27. The weather of the areas near	r the equator is
a. hot and humid.	b. hot and snowy.
c. warm and humid.	d. warm and snowy.
28. Due to the very little rains when	nich precipitate in some areas on
Earth, large areas ofare	e formed.
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d

a. forests b. seas c. oceans d. deserts
29. When the sun rays fall semi-inclined on Earth's surface, it is
distributed on a large area giving effect of heat and the
weather becomes
a. high-warm. b. low-warm. c. high-cold. d. low-cold.
30.All the following are examples of water reservoirs on the Earth
except
a. seas. b. glaciers. c. moon. d. living organism
31.Clouds are formed due to process.
a. melting b. collection c. condensation d. freezing
32. The form of water that is found in air and sometimes we canno
see it is the
a. liquid water. b. water vapor. c. ice. d. snow.
33. The condensed water vapor in clouds returns back to the
Earth's surface in the form of all the following, except
a. water vapor. b. rain. c. snow. d. sleet.
34. When the water in clouds becomes too heavy, it falls on the
ground by a process called
a. evaporation. b. precipitation. c. condensation. d. collection
35. Movement of air can change the state of water fromstate
to state by evaporation process.
a. gas-liquid b. liquid-gas c. solid-gas d. solid-liquid
36.Both ofand processes happen due to the
decrease of thermal energy.
a. melting-freezing b. melting - condensation
c. freezing-condensation d. melting-evaporation
37. The Sun heats the water of seas and oceans and this leads to
occurrence of process.
a. freezing b. melting c. evaporation d. condensatio
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38.The form of evaporation process th	nat takes place	from the
leaves of plants is called		

- a. transpiration. b. collection. c. melting. d. freezing.
- 39.About 10 % of the water vapor in air comes from transpiration of......
- a. humans. b. rocks. c. animals. d. plants.
- 40. Water vapor that is present in air changes into when it hits a cold-water bottle.
- a. gas state b. liquid water c. steam d. juice

Choose from (A) what suits it in (B):

1.

(A)	(B)
1.Condensation	a. Falling of snow in an area.
2. Evaporation	b. Formation of fog on a road.
3. Precipitation	c. Formation of a glacier in an area.
4.Runoff	d. Drying of a shallow lake.
4.IXUIIOII	e. Flowing of river's water into a sea.

2.

(A)	(B)
1. The weather becomes	a. the sun rays fall semi-inclined on Earth's
hot when	surface.
2. The weather becomes	b. the sun rays fall horizontally on Earth's
warm when	surface.
3.The weather becomes	c. the sun rays fall perpendicular on Earth's
very cold when	surface.
	d. the sun rays fall very inclined on Earth's
	surface.

Question 3

Put $(\sqrt{})$ or (X):

1.As air is warmed by the Sun, the air will fall down.

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- 2. All living organisms on the Earth depend on water to survive.
- 3. Falling of sleet in an area is an example of precipitation process.
- 4.Convection causes the movement of low-density air above the high-density air.
- **5.**The heat of the Sun transfers through space to Earth's atmosphere by convection.
- **6.**When fresh water changes into snow and ice, this means that fresh water gains thermal energy.
- 7. Rains fall and collect in oceans by the effect of gravity force.
- 8. There is a very little rains in desert areas.
- **9.**The weather in the area near the equator is very cold due to falling of sun rays perpendicular on Earth's surface.
- **10.**The water cycle is a movement of water through different water reservoirs on the Earth.
- 11. Water reservoirs on the Earth include oceans and seas only.
- **12.**The two factors which control the movement of water in the water cycle are gravity force and solar energy.
- **13.**Glaciers move from the top of mountains to the bottom of mountains due to the effect of gravity.
- **14.**The motion of air from one place to other leads to changing of water vapor into water in the air.
- 15. There is no water found in the air around us.
- 16. When water vapor cools in the sky, it forms clouds.
- 17. Clouds are made up of millions of tiny water droplets.
- **18.**Flamingos migrate to the large Salt Lake in Turkey when the weather is very cold there.
- 19. Due to radiation currents, warm water moves above cold water.
- **20.**The direction of wind is determined by the amount of solar radiation received by the Earth.

- **21.**Wind is caused by the continuous exchange between warm air and cold air.
- **22.**Deserts are formed by the effect of moist air.
- **23.**Unequal heating of the Earth between the poles and the equator generates wind.
- **24.**In the water cycle, the step that follows condensation process is runoff.
- **25.** Water comes out from stomata to the air in the form of water vapor.
- **26.**You can see transpiration process when you set a plant its leaves covered with a plastic bag in the sunlight.
- **27.** As a result of low temperature, water returns back into water vapor.
- 28. Clouds consist of tiny water droplets that have condensed out of air.
- **29.**Hottest regions are regions in which the evaporation process is the greatest.
- **30.** Water comes out from stomata to the air in the form of water vapor.
- **31.**In the water cycle, the step that follows condensation process is runoff.
- **32.**Transferring of energy in the water cycle causes increasing and decreasing of water level in some lakes.
- 33. Falling of hail in coolest regions is an example of evaporation process.

Write the scientific term:

- 1. It is the method by which heat transfers within liquids and gases, where hot molecules rise upward, while colder molecules fall down.
- 2. It is the method by which heat of the Sun transfers from the space to Earth's atmosphere.
- 3. The main source of energy which affects the water cycle.
- **4.** It is the process in which water falls on Earth in the form of rain, sleet, snow or hail.
- 5. They are the places of storing water on the Earth.

- **6.** The force which causes moving down of water from higher places to lower places on the Earth.
- 7. It is a form of evaporation that takes place through the stomata which are found in plant leaves.
- **8.** The cycle that involves the continuous movement of water from different water bodies to the atmosphere then falling back to the Earth in the form of rain, sleet or snow.
- **9.** It is caused when air warmed by the solar radiation rises and then replaced by cooler air that flows from nearby areas.
- **10.** It is the step-in which rainwater falling on the Earth's surface is collected in different water bodies.
- 11. It is the main source which is responsible for warming of air and forming wind.
- 12. Large areas of land which are formed due to the effect of dry air.
- **13.** It is the step-in which water flows along the Earth's surface into the river and then into the ocean or sea.

Complete the following sentences:

- **1.**Formation of fog is due to the.....of water vapor on a field in early morning.
- 2. The global wind system of the Earth consists of...... that blow in a constantover long periods of time.
- **3.**The direction of wind is determined by the amount of..... received by the Earth and..... of the Earth.
- **4.**The water starts to move or change its way of movement when a..... affects it.
- **5.**Flamingos migrate to the large Salt Lake in Turkey when the weather becomes, and they are feed on...... which are found in this lake.
- **6.**The movement of water through different water reservoirs on the Earth is called the.......

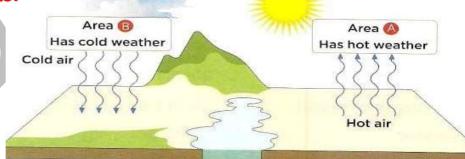
7. The force which cause moving down of water from the top of a
mountain is called
8.Clouds are made up of millions of tinydroplets.
9. Transpiration is a form ofprocess, while condensation
takes place by the decrease in theenergy.
10. Water vapor comes out from plant leaves through the
11. When in air hits a cold glass of juice, it will condense.
12. Water vapor condenses in the sky to form
13. When warm air is cooled, it will move, while cold air moves
when it is warmed.
14. Dry air causes the formation of large areas of around the
Earth's surface
15. The three main processes which are responsible for movement of
water through the water reservoirs on the Earth are evaporation,
and
16. Heat can transfer through the Earth's atmosphere due to the effect of
currents.
17. The difference in the and in water of oceans and
atmosphere occurs due to the unequal heating of land and oceans.
18. Fresh water changes into water vapor when it thermal energy
while fresh water changes into when it loses thermal energy.
19. The weather of the area faraway from the equator is because the
sun rays fall the Earth's surface at this area.
20. Cold water has more than warm water, so it moves under the
warm water.
21. The Sun produces the energy which causes the movement
of currents that produces ocean currents and
22. Due to convection currents, hot air moves cold air.
23. The amount ofenergy that reaches the Earth affects the rate of
evaporation process in the water cycle.
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a) Look at the following figure, then choose the correct answer:

- 1. This picture shows the.....(Complete).
- 2. Choose the correct answer:
- 1. The rain falling on the mountain is a form of
- a. cloud. b. precipitation.
- c. evaporation. d. condensation.
- 2. The rain on the mountain runs into the......and goes to the ocean.
- a. Sun b. river c. ocean d. groundwater
- 3. When the Sun heats up the water in the ocean, it will...........
- a. run off. b. condense. c. precipitate. d. evaporate.
- b) Look at the opposite figure, then complete the following sentences:
- 1. Areas......andare considered as hottest areas.
- 2. Areas......and..... are considered as moderate areas.
- 3. Areas.....and..... are considered as coolest areas.



c) Look at the following figure, then complete the following sentences using the words between brackets:



(more-solar radiation-loses-less)

- 1. Air in area (A) moves upward, because it has.....density.
- 2. Air in area (A) becomes hot by the effect of.......
- 3. Air in area (B) moves downward, because it has...... density.
- 4. When air in area (A) moves to area (B), it..... thermal energy, so it will fall down near the Earth's surface.

Give reasons for:

1.Drying up of the large salt lake in Turkey in summer season.

Due to the increase in the evaporation of the lake water.

2. Formation of fog in the early morning

Due to condensation of water vapor that is found in the air.

3. Changing of water from one state to another.

Due to gaining or losing of thermal energy.

4. Moving down of glaciers from the top of a mountain to its foot.

Due to the effect of gravity on glaciers.

5. Changing of some amount of water in water bodies into water vapor.

Due to evaporation process, as a result of gaining of thermal energy.

6. About 10% of water vapor in air comes from plants.

Due to transpiration process which happens by plants.

7. Formation of clouds in the sky.

Due to condensation of water vapor into water droplets that attach to particles of dust or smoke in the air.

8. Hot air moves upward above cold air.

Due to the effect of convection, where hot air has less density, so it rises upward, while cold air has more density, so it falls down.

9. The weather in the area near the equator is hot.

Because the sun rays fall perpendicular on Earth's surface giving high effect of heat.

10.The effect of heat is low in the area at the north and south of the equator.

Because the sun rays fall semi-inclined on Earth's surface of these areas, so the weather is warm.

11.On adding warm water to cold water without shaking, the warm water stay above cold water without mixing.

Due to the effect of convection, as warm water has less density than cold water, so warm water will stay above cold water.

12. The formation of wind is determined by the amount of solar radiation received by the Earth.

Because warm air rises upward when it is heated by solar radiation and it is replaced by cooler air that flows from nearby areas.

Question 9

What happen if:

1.To the level of water in a lake when the rate of evaporation increases.

The level of water will decrease.

2.To the snow when sunlight falls on it.

The snow will melt and change into liquid water.

3.If water of seas and oceans gains big amount of thermal energy.

Water of seas and oceans changes into water vapor in air.

4.If you cover some leaves in a plant with a plastic bag then put this plant in the direct sunlight for awhile.

Water droplets will form inside the bag.

5.If moist air touches a cold bottle of water.

Water vapor which is found in air condenses on the surface of the bottle.

6.If water vapor in air condenses in the sky.

Clouds are formed in the sky.

7.If the water droplets in the clouds become very heavy.

Water droplets fall in the form of rain.

8. To the weather if the sun rays fall very inclined on an area.

The weather of this area becomes very cold.

9.To the density of air if the cold air is warmed by the effect of solar energy.

The density of the air will decrease (becomes low).

10.To the air temperature if there is no wind on Earth.

The regions around the equator become extremely hot and the poles will completely freeze.

11.To the movement of air when solar radiation heats up the air in an area.

The air will move upward in this area.

Answers

Question 1

Choose:

1) b	2) b	3) c	4) c	5) d	6) b	7) d	8) a	9) b	10) c
11) c	12) b	13) b	14) d	15) c	16) b	17) d	18) c	19) a	20)c
21) a	22) d	23) d	24) c	25) d	26) c	27) a	28) d	29) b	30) c
31) c	32) b	33) a	34) b	35) b	36) c	37) c	38) a	39) d	40) b

Question 2

Choose from (A) what suits it in (B):

1. 1. b

2. d

3. a

4.e

2. 1. c

2. a

3. d

Question 3

Put (\checkmark) or (X)

1.X 16.√ 26. X 6.X 11.X 21.` 22. X 7 ✓ 2. 12.✓ 17.✓ 27. 28. ✓ 3.✓ 8.✓ 13.✓ 18.X 23. ✓ 4.✓ 9.X 14.✓ 19.X 24. X 29. ✓ 30. ✓ 5.X 10.✓ 25. ✓ 15.X 20.√

Question 4

Write the scientific term:

1.Convection

6.Gravity

11. The sun

31. X

33. X

32.

2.Radiation

7. Transpiration process

12. Deserts

3.The sun

8. The water cycles

13. Runoff

4. Precipitation process

9.Wind

5. Water reservoir

10. Collection

Question 5

Complete the following sentences:

1. Condensation

2. Wind – direction

3. Solar radiation – rotation

4. Force

5. Warm - algae

6. Water cycle

7. Gravity

8. Water

9. Evaporation – thermal

10. Stomata

11. Water vapor

12. Clouds

13. Downward – upward

14. Desert

15. Condensation -

precipitation

16. Convection

17. Temperature – densities

18. Gain – ice

19. Very cold – very inclined

20. Density

21. Convection – winds

22. Above

23. Solar

Correct the underlined words:

1. Running 4. Atmosphere 7. Lake 10. Weathering

2. 71 5. Hydrosphere 8. Gas 11. Biosphere

3. Four **6.** Atmosphere **9.** Blue

Question 7

Study the following figure then complete the sentences below:

a) 1. Water cycle 2. 1. b 2. b 3. d

b) 1. C- D 2.B- E 3. A-F

c) 1. less 2. Solar energy 3. More 4. Loses